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Administration

*1997 Report of  
Center Specific Graft  
and Patient Survival Rates*

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Pancreas Volume

**1997 REPORT  
OF  
CENTER SPECIFIC  
GRAFT AND PATIENT  
SURVIVAL RATES**

**PANCREAS VOLUME**



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## PREFACE

The United Network for Organ Sharing (UNOS) operates the national Organ Procurement and Transplantation Network (OPTN) and the national Scientific Registry of Transplant Recipients. In this role, UNOS functions as both a contractor for the Federal Government and as a private, non-profit corporation. Under contract with the Health Resources and Services Administration, UNOS has operated the OPTN since September 30, 1986, and the Scientific Registry since September 30, 1987.

Under the terms of the Transplant Amendment Act of 1990, UNOS is required to determine center specific transplant survival rates for all solid organ transplants performed within the United States and provide this information to the Division of Transplantation. This *1997 Report of Center Specific Graft and Patient Survival Rates* represents the third biennial report, based largely on scientific Registry data, compiled and analyzed from January 1, 1988, through April 30, 1994.

There are 7 volumes in this report: 6 Organ Specific Volumes and 1 Executive Summary. The *organ specific volumes* contain a summary of the national graft and patient survival outcomes for each organ, as well as a description and distribution of the donor and recipient characteristics among programs. Also included in each organ specific volume is a *User's Guide* which provides guidance on how to read the data and use the report. The *Executive Summary* condenses the primary results from each organ specific volume and describes the technical methods used in creating this report.

### SUGGESTED CITATION FOR THIS REPORT

1997 Report of Center Specific Graft and Patient Survival Rates, UNOS, Richmond, VA, and the Division of Transplantation, Office of Special Programs, Health Resources and Services Administration, U.S. Department of Health and Human Services, Rockville, MD.

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**Publications based upon UNOS data in this report or supplied upon request must include the above citation as well as the following statement:**

The data and analyses in the 1997 Report of Center Specific Graft and Patient Survival Rates have been supplied by UNOS. The authors alone are responsible for the reporting and interpretation of these data.



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# **I. USER'S GUIDE**

**About the Center Specific Report**  
**About the Organ Specific Volumes**  
**Glossary of Terms**  
**How Program Specific Data Are Presented**  
**What to Remember When Using the Report**  
**Where to Go For Help**







## I. USER'S GUIDE

### A. ABOUT THE 1997 REPORT OF CENTER SPECIFIC GRAFT AND PATIENT SURVIVAL RATES

Under the terms of the Scientific Registry contract with the Federal government and the 1990 Transplant Amendment Act, the United Network for Organ Sharing (UNOS) is required to determine and report program specific transplant survival data every two years. *The 1997 Report of Center Specific Graft and Patient Survival Rates* comprises seven volumes:

1. Executive Summary
2. Kidney volume
3. Liver volume
4. Pancreas volume
5. Heart volume
6. Lung volume
7. Heart-Lung volume

**The Executive Summary --** This document condenses the primary results from each organ specific volume and describes the technical methods used in creating this report.

**Organ specific volumes --** These six volumes, one for each organ, form the core of the *1997 Report*. Each volume contains (1) a User's Guide, which provides guidance on how to use the report and interpret the data tables, (2) a summary of the national graft and patient survival outcomes, and (3) transplant program specific data: a survival rates table, a chart describing the distribution of risk factors for the transplant program and the nation and, in some cases, a written narrative provided by the transplant program.

#### **The 1997 Report:**

- Includes U.S. transplant data from January 1, 1988, through April 30, 1994. Excluded from these data are multi-organ transplants (except for kidney-pancreas and heart-lung transplants), heterotopic heart transplants, and living donor (except for kidney) transplants.
- Adjusts for recipient and donor risk factors for each organ specific risk model (see Table I-1).
- Emphasizes short term as well as long term survival. Short term survival is defined at two time points, 3 months (1 month for thoracic organs) and 1 year following transplant. Long term survival is defined in two ways, as unconditional 3 year survival, and conditionally, as survival at 3 years post-transplant for grafts or patients who survive 1 year.
- *The long-term conditional survival analysis provides an assessment of factors independent of those limited to the first year (e.g., the risk of surgical procedures and early acute rejection events).*
- Presents actual and expected graft and patient survival rates separately.
- Shows survival rates for two time periods (i.e., eras). Era 1 is from January 1, 1988, to April 30, 1992. Era 2 is from May 1, 1992, to April 30, 1994. *Era specific survival rates allow assessment of whether a program's performance improves over time.* Three year survival analysis is only possible for data from Era 1 due to insufficient follow-up on patients who received transplants in Era 2.

### B. ABOUT THE ORGAN SPECIFIC VOLUMES

There are six organ specific volumes in this report: one for kidney, liver, pancreas, heart, lung, and heart-lung. Each volume first presents a general summary of the key results from the analysis, including:

- a synopsis of the data quality, the number of transplants and outcomes studied;
- a description of statistical models used to describe the impact of donor and patient risk factors on survival and predict each program's expected survival rates at each time point of interest; and
- a summary of the national survival rates over time.

Each volume then shows specific survival data for each transplant program, listed by state. The data are presented in three parts:



1. Graft and Patient Survival Rates
2. Patient and Donor Characteristics
3. A Narrative Response From Each Transplant Program

Guidance on how to read the data and appropriate examples are described below.

**Table I-1. Recipient and Donor Risk Factors Considered in the Pancreas Models**

Recipient and Donor Factors Initially Considered	In the Final Survival Models?	
	Short-term	Long-term
Transplant Procedure Type (Simultaneous Kidney/Pancreas, Pancreas After Kidney, Pancreas Alone)	Yes	Yes
First or Repeat Transplant	Yes	No
Recipient Age	Yes	Yes
Recipient Gender	No	No
Recipient Race	Yes	No
Years Between Diabetes Onset and Transplant	No	Yes
Cold Ischemic Time (Hours)	Yes	Yes
Similarity of Donor and Recipient Tissue (HLA mismatch)	No	No
Donor Age	Yes	Yes
Donor Gender	No	No
Donor Race	No	Yes
Year of Transplant Performed	Yes	No

### C. GLOSSARY OF TERMS

*The general terms and definitions listed below are used throughout this report. For a list of key terms used in the survival rates tables, please see page 4*

**Center or Hospital** -- A facility which may have one or several transplant programs (e.g. one center with separate kidney, liver, and heart transplant programs).

**Center Effect** -- The quality of a transplant program. In this report, the center effect is quantified by the difference between a program's actual and expected survival rates (See page 3 for definitions of actual and expected survival rates).

**Clinical Significance** -- This indicates an effect that is medically important regardless of whether or not it achieves statistical significance.

**Coefficient** -- A number estimated in a statistical model that describes the mathematical relationship of a characteristic (e.g., age) to the outcome of interest (e.g., graft failure).

**Cohort** -- The observations selected for a study based on a specific time period. In this report, the overall cohort is defined as all transplants and patients between January 1, 1988, and April 30, 1994.

**Cold Ischemic Time** -- The time between retrieval of the organ from the donor and transplantation in the recipient.

**Conditional 3 Year Survival** -- In this report, it refers to the survival at 3 year post-transplant for those who survived at least 1 year. This analysis provides an assessment of characteristics independent of those limited to the first year (e.g., surgical complications and early acute rejection events).

**Covariate or Factor** -- A characteristic (e.g., age, race) considered in the statistical analysis.

**Era 1** -- January 1, 1988 - April 30, 1992.

**Era 2** -- May 1, 1992 - April 30, 1994.

**FU** -- Follow-up.



**Graft** -- The transplanted organ.

**HLA** -- The human leukocyte antigen or genetically determined tissue markers. The host's immune system responds to foreign tissue antigens (markers) and initiates rejection. The greater the number of HLA mismatches, the greater the degree of tissue incompatibility between a donor and a recipient and the more likely a graft will be rejected.

**Logistic Regression Model** -- A statistical model used to estimate the chance of occurrence of an event. In this report, it is applied to estimate the chance of graft or patient failure at specific time points following transplantation. Thus, it can be used to determine the expected survival rates for a transplant program.

**Odds** -- The relative chance in favor of one event over the other. For instance, the odds of graft failure refers to the chance of graft failure relative to the chance of graft functioning.

**Odds Ratio** -- The ratio of the odds for two groups. For example, if the odds ratio of graft failure for repeat versus primary transplants is 1.40, that means the odds of graft failure for repeat transplant is 40% greater than the odds of graft failure for primary transplant.

**PA** -- Pancreas.

**Program** -- Individual organ transplant department (e.g., kidney program, liver program).

**P- Value** -- see Page 5 for definition.

**Recipient Age** -- Age of the recipient at the time of transplant.

**Reference Group** -- A group (e.g. White, male) chosen for each characteristic (e.g., race, gender) considered in the analysis with which the other groups (e.g., Black, Hispanic, female) can be compared. As a general rule, the largest group or the mean of the covariate (e.g., mean recipient age) is often used as the reference group.

**Statistical Significance** -- When a statistical test is rejected, the finding is statistically significant. For example, one of the hypotheses in this report is that an individual "center effect" does not exist for a

particular transplant program. When the data show enough evidence to reject the hypothesis, the "center effect" is statistically significant for this transplant program. Often, the p-value provides a measure of statistical significance. (also see page 5 for more details on p-value and statistical significance).

**Standard Error** -- A statistic that describes the degree of uncertainty that the estimated coefficient is accurate (also see "coefficient" above). The higher the standard error is, the less certain we are that the estimated coefficient is accurate.

**TX** -- Transplant.

## D. HOW THE PROGRAM SPECIFIC DATA ARE PRESENTED

### Graft and Patient Survival Rates

The data tables presented in this report should be used to find both the graft and patient survival rates at various time intervals. **Graft survival** refers to the percentage of grafts (i.e., transplanted organs) that are still functioning at a given time point after transplant. **Patient survival** refers to the percentage of patients who are alive at a given time point after transplant. Graft and patient survival rates do not necessarily correspond. It is possible to obtain a higher patient survival rate than graft survival rate within the same group of patients at a transplant program, particularly among kidney and pancreas recipients. For example, a patient's original kidney graft might fail, but the patient can still survive through subsequent dialysis or retransplantation. For vital organ transplants such as livers and hearts, graft and patient survival are more likely to correspond, as organ failure in these patients often means death.

In this report, graft and patient survival rates are given at 3 months (1 month for thoracic organs), 1 year and 3 years. The 3 year survival rate is defined in two ways, as survival at 3 years conditional on survival at 1 year post-transplant, and at 3 years unconditionally. The focus of the long term analysis is on the conditional 3 year survival rates (see page 1).

**Actual survival rate** is the percentage of grafts (or patients) that survived at that transplant program for the designated period of time. In the example shown in Table I-2, the actual overall 3 month graft survival



rate for patients who received a pancreas transplant at ABC Hospital is 85%. This means that among all of the patients who received a pancreas at this hospital, 85% of the grafts were still functioning 3 months after transplant. This rate is statistically adjusted if a program had incomplete follow-up information on some of its patients.

Although the actual survival rate is valuable information, by itself it can be misleading because it is a function of both the effectiveness or quality of the services at a program *and* the characteristics of the patients at that program. For example, suppose that the patients who received a pancreas transplants at ABC Hospital were older or sicker than the patients at XYZ Hospital. These patient characteristics would likely result in a lower survival rate for ABC Hospital, even if both hospitals had equally effective transplant programs.

**Expected survival rate** is the survival rate expected after adjusting for recipient and donor characteristics such as race, age, and gender. Used to provide a more accurate interpretation of the actual survival rate, it is calculated using a sophisticated statistical procedure. First, risk factors are identified by fitting a mathematical model using the entire nation's transplant survival data to determine how these diverse factors are related to graft and patient survival. Then, each patient's expected survival rate is computed based on the national model. Finally, these expected survival rates are averaged over the patients from ABC Hospital to obtain ABC Hospital's expected survival rate.

*A positive difference between the actual and expected survival rates indicates that the program's actual rate is above the national survival rate for transplant patients and donors with the same characteristics. A negative difference between the actual and expected survival rates indicates that the program's actual rate is below the national survival rate for transplant patients and donors with the same characteristics.*

For instance, in the example in Table I-2, the overall 1 year actual graft survival rate of 80% is higher than the expected graft survival rate of 73.4%. One might conclude that this a pancreas program had a 1 year graft survival rate that was better than the national survival rate given the same patient characteristics.

### **Key Terms Used in the Survival Rates Tables**

**Actual Survival Rate (Act. Rate)** -- The percentage of patients who survived or grafts that functioned without failure for a given period of time after transplant. This rate is statistically adjusted if a transplant program's follow-up data are incomplete (see *Technical Methods* section of the *Executive Summary* for more details).

**Expected Survival Rate (Exp. Rate)** -- The survival rate expected at each program after adjusting for the indicated risk factors discussed in each organ specific volume of the report. In general, programs performing a large percentage of transplants on high risk patients have lower expected survival rates.

**Difference in Rates (Diff.)** -- The difference between the actual survival rate and the expected survival rate. A negative difference indicates that the actual rate is below the expected rate. A positive difference indicates that the actual rate is above the expected rate.

**Number with Complete Follow-Up Data (No. w/CFU)** -- The number of patients or grafts for which the status of the patient or transplanted graft was known at the end of the specified time interval (e.g., known status at 1 year post transplant).

**Number Died (No. Died)** -- The number of patients who died within a specified time interval.

**Number Failed (No. Failed)** -- The number of grafts that failed within a specified time interval. For kidney and pancreas transplants only, death with a functioning graft is considered a graft failure for the short term analysis. In the 3 year conditional analysis of graft survival, death with a functioning graft is not considered a failure but rather lost to follow-up.

**Number of Patients (No. of Pts.)** -- The number of patients transplanted at the transplant program, used to calculate patient survival rates at 3 months (1 month for thoracic organs), 1 year, or 3 years, both unconditional and conditional on survival to 1 year. *Please Note:* For conditional 3 year survival rates, this number excludes those patients that either died or were lost to follow-up during the first year following the date of transplant. The number of patients in Era 1 and Era 2 may not add up to the total number of patients in the overall period. This is due to multiple



transplants in different eras for some patients. For example, if a patient had her first transplant in Era 1 and a second transplant in Era 2, she would be counted twice, once in each era, in calculating the era-specific survival rates but only once in calculating the overall survival rate.

**Number of Transplants (No. of TX)** -- The number of transplants performed at the transplant program, used to calculate graft survival rates at 3 months (1 month for thoracic organs), 1 year, or 3 years, both unconditional and conditional on survival to 1 year. *Please Note:* For conditional 3 year survival rates, this number excludes those grafts that either failed or were lost to follow-up during the first year following the date of transplant.

**P-value** -- The p-value provides a measure of statistical significance. The smaller the p-value, the less likely an observed measurement is due to chance alone. A p-value of less than 0.05 ( $<0.05$ ) means that there is a statistically significant difference between the actual survival rate and the expected survival rate. (See *Chance Differences and Statistical Significance* below for a detailed explanation of statistical significance.)

**Time Point** -- The specific time at which survival is calculated, either at 3 months (1 month for thoracic organs), 1 year, or 3 years conditionally and unconditionally following transplant.

### **Chance Differences and Statistical Significance**

In comparing expected and actual survival rates, it is important to pay attention to both the size of the difference and the number of transplants on which these survival rates are based.

Suppose the expected survival rate is 70% at ABC Hospital and its actual survival rate is 68%. This two percentage point difference is so small that it does not have much clinical significance. Even if it were statistically significant; you probably would not want to base any decisions on which transplant program to use based on this difference. On the other hand, if the two rates were 70% and 60%, you might feel safer receiving a transplant at a program with a higher actual than expected survival rate for the type of transplant that you need.

It is also important to note the number of transplants

that a program has done. The more transplants performed, the more confident you can be that the difference between actual and expected survival rates reflects the quality of the program rather than accidental factors or chance. For example, suppose that ABC Hospital has an expected survival rate of 60% and an actual survival rate of 80%. If ABC has done only five transplants, you would not be very confident that its actual survival rate is higher than the average for other programs. It may be due to chance that the five patients who received their transplants at ABC were very strong people and, therefore, survived their operations. However, if ABC has done 500 transplants and its survival rate is 10 percentage points above its expected rate, it would be very unlikely that this was due to chance occurrence. You would be more confident that the difference reflects a real difference in quality between ABC Hospital and other programs.



Table I-2. Example of Graft and Patient Survival Rates Table

**Pancreas Transplants: January 1, 1988 - April 30, 1994****Survival Report for America Medical Center - Anywhere  
Provider Number 000000 (ABC)****Graft Survival**

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Months	229	84.7	78.9	141	85.1	83.6	370	370	56	84.9	80.7	4.2	0.03
1 Year	229	79.5	71.4	141	80.9	76.6	370	369	74	80.0	73.4	6.6	<0.01*
Cond <sup>3</sup> 3 Years	182	92.8	89.9				182	181	13	92.8	89.9	3.0	0.17
3 Years <sup>3</sup>		73.8	64.2										

**Patient Survival**

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Dead	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Months	208	90.6	86.1	131	91.2	89.5	339	337.5	31.0	90.8	87.4	3.4	0.04
1 Year	208	87.7	80.4	131	88.4	84.2	339	335.5	40.5	88.0	81.9	6.1	<0.01*
Cond <sup>3</sup> 3 Years	183	92.9	90.9				183	181.5	13.0	92.9	90.9	2.0	0.33
3 Years <sup>3</sup>		81.5	73.1										

- Notes:
- <sup>1</sup>. No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
  - <sup>2</sup>. A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
  - <sup>3</sup>. Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
  - <sup>4</sup>. The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
  - <sup>5</sup>. No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.



Table I-3. Example of Donor and Recipient Characteristics Table

Pancreas Transplants: January 1, 1988 - April 30, 1994					
Donor and Recipient Characteristics: Center and National Frequencies					
America Medical Center - Anywhere					
Provider Number 000000 (ABC)					
		---- Program ----		-- National --	
		Number	%	Number	%
Total Transplants and Percentages		370	100.0	3222	100.0
Donor Age	0-17	37	10.0	727	22.6
	18-29	120	32.4	1265	39.3
	30-39	73	19.7	608	18.9
	40-49	79	21.4	450	14.0
	50+	61	16.5	172	5.3
Donor Race	White	330	89.2	2790	86.6
	Black	16	4.3	264	8.2
	Hispanic	19	5.1	131	4.1
	Asian	2	0.5	23	0.7
	Other	3	0.8	14	0.4

When a difference between an expected and an actual survival rate is large and is based on many transplant cases, statisticians call the difference "statistically significant." Statistically significant differences are unlikely to be caused by chance factors and are likely to reflect a true difference between actual and expected survival rates.

There are statistical tests used to determine when a difference is statistically significant. One such test is used with the program specific survival data presented in this report. Look at the last column in the survival tables, marked "p-value." When this value is low, the difference between the actual and expected survival rate for that program is statistically significant. Very low p-values are .01, .02, .03, .04, and .05. Marginally low p-values, values that are close to significance, are .06, .07, .08, .09, and .10. Keep in mind that p-values are only approximate, especially those based on a few transplant cases. *For purposes of this report, differences with a p-value*

*less than .05 are considered statistically significant.*

There are two further cautions in interpreting statistical significance:

1. If a program has done a great many transplants, even a very small difference between actual and expected rates can be *statistically significant*.
2. However, if a program has done a great many transplants, very small differences are probably not *clinically significant*, and therefore are not large enough to influence the choice of a transplant program. Clinical significance means the difference is large enough to have practical importance for someone choosing a transplant program.

For additional information on the study methods, see the *Technical Methods* section in the *Executive Summary*.



### Donor and Recipient Characteristics

The second section of each transplant program's data consists of a table comparing donor and recipient characteristics of the transplant program's patients to those same characteristics among transplant programs nationwide. The information provided in this table varies by organ.

In the example in Table I-3, the transplant program performed a total of 370 pancreas transplants between January 1, 1988, and April 30, 1994. Of these, 16.5% received a pancreas from a donor 50 years of age or older. This is 11.2 percentage points higher than the national percentage of 5.3%. As a result, the actual survival outcomes for this program might be somewhat lower than the national average had all other variables been equal, since survival for organs from older donors is generally higher than that from donors under the age of 50.

### Optional Narrative Response From Each Transplant Program

The narrative response represents the transplant program's interpretation of its graft and patient survival rates. It has been submitted by the transplant program and has not been edited except to remove patient identifiers. The narrative response explains in detail those factors unique to the transplant program's performance which may not be reflected in the data as they are reported. For example, a transplant program may have had a change in staff which temporarily affected the number of patients that were transplanted. **Not every transplant program provided a statement.**

Table I-4 on the next page is a hypothetical example of a narrative response from a transplant program.

### **E. WHAT TO REMEMBER WHEN USING THE REPORT**

When using the *1997 Report of Center Specific Graft and Patient Survival Rates* you should remember that:

- Caution should be exercised in comparing one program to another because each program may reflect a special patient and donor pool. Conclusions should be based not only on the *Survival Rates Table* but also on the *Donor and Recipient Characteristics Table* and the optional *Narrative Response* provided by the transplant program.
- The *actual* survival rate may be misleading by itself because the actual survival rates are reflective of both the quality of the services at a program and the characteristics of the patients at that program.
- The *expected* survival rates show what survival rates are to be expected at a program if its patient and donor characteristics are taken into account. However, not all of the factors affecting graft and patient survival are included in the analysis. It is probable that there are other factors which have an impact on survival rates that could not be accounted for in this report.
- For the large majority of transplant programs, the difference between actual and expected survival rates was not statistically significant.
- The number of transplants performed at a program is an important factor to consider when evaluating survival rates. In general, the more transplants a program has performed, the more closely the survival rates reflect the quality of the program.



Table I-4. Example of Narrative.

The Transplant Program at XYZ Hospital  
Public Comment Response

XYZ Hospital began performing kidney transplants in December of 1987. From January 1, 1988 to April 30, 1994, we performed 85 transplants. All but five patients in this time period received a combined kidney-pancreas transplant.

Our actual graft and patient survival data were nearly equivalent to our statistically expected outcomes. Our results were significantly affected by one untimely death in the early post-operative period. This death was associated with complications related to immunosuppression and not related specifically to the kidney transplant per se. This patient died with a functioning graft. Had we not experienced this mortality, our patient survival and graft outcome data would have been even better.

We are pleased with the growth and progress of our transplant program, here at XYZ Hospital. One of our limiting factors is the number of patients we can serve versus the ongoing problems of obtaining adequate numbers of organs for transplantation.

XYZ Hospital transplant program worked hard to meet the criteria to become a member of UNOS for kidney, pancreas and liver transplants. We are proud of our transplant program and will continue to provide the highest patient care available anywhere.

E. T. Smith, M.D.  
Director of Transplantation

Patients and their families also should consider other factors in selecting a transplant program, such as:

- The experience, training, and education of the transplant team and the medical and nursing care available throughout the process -- from candidate evaluation through transplantation and follow-up.
- The costs of the transplant procedure, physician services, hospitalization, and medications.
- The proximity of the transplant program to home and how easily it can be reached.
- The friends and family available for assistance before, during, and after the transplant.
- The quality and availability of post-transplant services.

## F. WHERE TO GO FOR HELP

**Personal physician** -- One of the most valuable resources for interpreting the data in the *1997 Report of Center Specific Graft and Patient Survival Rates* is a personal physician. Even if the physician does not have a copy of the report, s/he should be able to explain the differences between the types of data reported for the specific transplant programs of interest.

**The Transplant Program** -- Information about a transplant program's graft and patient survival rates should be available upon request of the transplant program. You might seek assistance from the transplant surgeon or physician, transplant coordinator, or social worker.



**National Organ Procurement and Transplantation Network (OPTN) and the Scientific Registry of Transplant Recipients --** UNOS maintains the OPTN and the Scientific Registry and can be contacted for information about the report and for assistance with data interpretation. Please contact:

All *Patient* inquiries: (888)TXINFO-1  
Research inquiries: UNOS Data Request Line --  
804/330-8576 or  
804/323-3794 (fax)  
Media inquiries: (804) 327-1432

UNOS also maintains a **Web site** on the Internet from which visitors can retrieve the latest UNOS statistics, patient information, press releases, policies and by-laws, and other information pertinent to transplant professionals, the media, and the general public. The address is: [www.unos.org](http://www.unos.org).

UNOS also is producing the *1997 Report of the OPTN: Waiting List Activity and Donor Procurement*. The purpose of this report is to provide information relating to donor procurement and waiting list activity, including median waiting times to transplant and percentage transplanted for the U.S. as well as each UNOS region and every OPO. Used in conjunction with the *1997 Report of Center Specific Graft and Patient Survival Rates*, patients and their families will have information on donor procurement rates and estimated waiting time to transplant given various patient clinical or demographic characteristics for each OPO and waiting list activity data for transplant centers within each OPO.

UNOS also has resource packets available for transplant patients or family members. These packets include brochures on the organ allocation process and questions patients should ask a transplant program, information on financial issues for transplant patients, summary transplant statistics and details on obtaining more specific information from UNOS.

Beginning in 1998, transplant centers will provide a resource packet to every patient accepted for transplantation. In addition, UNOS maintains a toll-free request line (1-888-TXINFO-1) for anyone wishing to receive this information separately.

**The Federal Government --** The *1997 Report of Center Specific Graft and Patient Survival Rates* was prepared by UNOS and was funded in part by the U.S. Department of Health and Human Services, Health Resources and Services Administration, Office of Special Programs, Division of Transplantation. For information on how to obtain a copy of the report, or additional information regarding transplantation contact:

Health Resources and Services Administration  
Office of Special Programs  
Division of Transplantation  
5600 Fishers Lane  
Parklawn Bldg., Room 7-29  
Rockville, Maryland 20857 USA  
(301) 443-7577



## **II. SUMMARY CHAPTER**

### **Introduction**

**Completeness of Follow-Up Data and Survival Rates**

**Percentages of Actual and Expected Graft Survival Rates**

**Percentages of Actual and Expected Patient Survival Rates**

**Donor and Recipient Characteristics**

**Impact of Characteristics on Short Term Survival**

**Impact of Characteristics on Long Term Survival**

**Comparison Between Short and Long Term Characteristics**

**Statistical Methods and Models**

**Summary**







## II. PANCREAS TRANSPLANT SURVIVAL RATES

*For the Summary of this chapter, see page 28. For definitions of any terms used here, please refer to the User's Guide, beginning on page 2.*

### A. INTRODUCTION

This report of pancreas transplant survival rates is based upon verified Scientific Registry data for 3,222 transplants involving 3,142 patients from 96 pancreas transplant programs in the United States. Each program reporting at least one pancreas or combined kidney-pancreas transplant between January 1, 1988, and April 30, 1994, was included. Multi-organ transplants other than combined kidney-pancreas procedures were excluded.

Short term survival is defined as survival at 3 months and 1 year post-transplant. Short term survival rates are based on all transplants in the study for which there are follow-up data.

Long term survival is defined in two ways:

- unconditional survival at 3 years post-transplant, and
- survival at 3 years post-transplant for those who survived at least 1 year, referred to as **conditional 3 year survival**.

The long term survival rates are based on all transplants between January 1, 1988, and April 30, 1992, for which there are follow-up data. This cohort was chosen to ensure that the maximum number of transplants with follow-up data was used to determine long term survival rates. Please note that the emphasis on long term survival in this report is on the *conditional* 3-year survival rates. This is because the conditional 3-year analysis provides an assessment of characteristics independent of those limited to the first year (e.g., surgical complications and early acute rejection events).

### B. COMPLETENESS OF FOLLOW-UP DATA AND OVERALL GRAFT AND PATIENT SURVIVAL RATES

For graft survival, completeness of follow-up data and overall actual survival rates at each time point are

shown in Table II-1; patient survival data are shown in Table II-2.

Patient (graft) follow-up data were considered complete when:

- the patient was alive (pancreas was functioning) and the duration of survival (function) was equal to or exceeded the specified time after transplant (i.e., 3 months, 1 or 3 years), or
- the patient died (pancreas failed) and a valid date of death (failure) was reported.

The percentages of complete follow-up data ranged from a low of 93.9% for the conditional 3 year time point to a high of 99.9% for the 3 month time point. Patient survival rates are better than graft survival rates at all time points because other medical therapy is available for patients whose grafts fail.

Overall survival rates also are presented in the tables. If a graft had incomplete follow-up data, the observation was weighted to account for the time during which the graft was known to be functioning. Therefore, the actual graft survival rate reflects the weighted proportion of grafts functioning at the specified time interval. Patient survival rates were computed in a similar way (see the *Technical Methods* chapter of the *Executive Summary*).

In the calculation of graft survival rates, death with a functioning graft was treated differently depending upon the time interval. For short term survival (3 months, 1 year), grafts were considered to have failed at the time of death because it is reasonable to assume that deaths occurring shortly after a transplant are likely to be related to graft dysfunction. For long term survival, because it is more likely that death might not be related to graft failure, if a patient died with a functioning graft more than 1 year after a transplant, the graft was treated as a censored observation at the time of death. In other words, it was treated as if the graft still functioned but further follow-up data were unavailable. The graft then was weighted for the proportion of time in the period that the graft was functioning. (see the *Technical Methods* chapter of the *Executive Summary* for a complete description of weighting.)



In the cohort of transplants (1/1/88 - 4/30/92) used to compute conditional 3 year survival rates, patients (grafts) who did not survive to 1 year after transplant were excluded from the analyses. Therefore, the total number of patients (grafts) for the conditional 3 year analysis was less than that for the 3 month and 1 year analyses. Further, the number of patients is greater than the number of grafts because more grafts failed than patients died within the first year post-transplant.

Please note that the conditional 3 year graft and patient survival rates in Tables II-1 and II-2 [and in each program specific survival table] may be higher than the 1 year graft survival rates. This is possible because the conditional 3 year survival rates should be interpreted as the 3 year survival rate for patients (grafts) who (which) survived at least 1 year post-transplant.

For example: Program A performed a total of five transplants between 1/1/88 and 4/30/92. Two of the pancreata failed prior to 1 year post-transplant and the remaining three pancreata survived to 3 years after transplant. In this example, Program A has a 1 year graft survival rate of 60% (3 out of 5 pancreata

were functioning at 1 year post-transplant). However, the conditional 3 year survival rate for Program A is 100% because all three pancreata that were functioning at 1 year after transplant also were functioning at 3 years post-transplant. The same calculations are used for patient survival. See the *Technical Methods* chapter of the *Executive Summary* for more specific definitions of follow-up data and the calculations for actual graft and patient survival.

#### Overall Graft and Patient Survival Rates by Era

In this report, short term survival also is reported by era. Separate eras were used to determine whether there were any improvements over time in the short term survival rates. Era 1 is defined as all transplants occurring between January 1, 1988, and April 30, 1992; Era 2 includes all transplants occurring between May 1, 1992, and April 30, 1994. The overall graft and patient survival rates by era are presented in the last two columns of Table II-1 and Table II-2, respectively. The results demonstrate improvement in both graft and patient survival rates over time.

**Table II-1. Completeness of Graft Follow-Up Data and Actual Survival Rates for Pancreas Transplants**

Time	Cohort	Number of Transplants	Percent with Follow-Up Data	Graft Survival (%)		
				Overall	Era 1	Era 2
3 Months	1/1/88 - 4/30/94	3,222	99.9	83.6	82.4	85.2
1 Year	1/1/88 - 4/30/94	3,222	99.3	73.5	71.9	75.7
Cond. 3 Years	1/1/88 - 4/30/92	1,310	93.9	91.3*	91.3*	N/A*

**Table II-2. Completeness of Patient Follow-Up Data and Actual Survival Rates for Pancreas Transplants**

Time	Cohort	Number of Patients	Percent with Follow-Up Data	Patient Survival (%)		
				Overall	Era 1	Era 2
3 Months	1/1/88 - 4/30/94	3,142	99.2	96.1	94.9	97.5
1 Year	1/1/88 - 4/30/94	3,142	96.5	91.1	90.4	92.2
Cond. 3 Years	1/1/88 - 4/30/92	1,595	94.4	92.3*	92.3*	N/A*

\* The cohort used to determine the overall conditional 3 year survival rate is the same as the Era 1 cohort. Therefore, the overall conditional 3 year survival rates are identical to the conditional 3 year survival rates for Era 1. There is no conditional 3 year survival rate calculated for Era 2 due to insufficient follow-up data on patients who received transplants in Era 2.



### C. GRAFT SURVIVAL -- PERCENTAGES OF ACTUAL AND EXPECTED SURVIVAL RATES

For each transplant program, actual and expected survival rates were calculated at 3 months, 1 year, and 3 years conditional on survival at 1 year. Survival rates at each time point were determined using a specific cohort of transplants (shown in Tables II-1 and II-2 on the previous page). Expected survival rates were determined for each transplant program based on its specific patient and donor characteristics. These expected outcomes were statistically adjusted for many important prognostic variables, or covariates, that were used in the survival analysis. In other words, they take into account the many different characteristics that affect survival. For example: *if Program A transplanted many more "high risk" recipients than Program B, then Program A would have a lower expected survival rate than Program B.*

If a program's *actual* survival rate was *greater* than its expected survival rate, this means that the program's actual results were higher than the national results for transplants *with the same donor and recipient characteristics*. If a program's *actual* survival rate was *less* than its expected survival rate, this means that the program's actual results were lower than the national results for transplants *with the same donor and recipient characteristics*. *The difference between the actual and expected rate may have occurred by chance and, therefore, may not be statistically significant.* Furthermore, even a statistically significant difference, one that most likely

did not occur by chance, may not be clinically significant (i.e., medically important). A formal description of the methods used to determine actual and expected survival rates appears in the *Technical Methods* chapter of the *Executive Summary*.

Table II-3 shows the percentages of pancreas transplant programs by graft survival rates, both for actual and expected survival. The majority of the transplant programs had actual survival rates greater than 60% at all time points. The short term survival rates showed a greater variation among programs than the long term survival rates. At 3 months, 36.4% of programs had actual survival rates greater than 90%. At 1 year, this fell to 18.8%. However, the percentage increased to 63.2% for the conditional 3 year survival rates. The distribution of the expected survival rates shows a similar trend. The results indicate that there are more programs with high survival rates (>90%) at the conditional 3 year time point than there are at the 1 year time point. *This is because the most critical period of time for graft survival is the first year post-transplant.* Those who survive the first year are very likely to survive 3 years post-transplant.

The percentages of programs by short term graft survival rates and eras, both for actual and expected survival, are summarized in Table II-4. The results demonstrate a substantial improvement in graft survival over time because a greater percentage of programs had actual survival rates higher than 90% in Era 2. Expected survival rates in Era 2 also were higher than in Era 1.

**Table II-3. Percentages of Pancreas Transplant Programs by Graft Survival Rates**

Graft Survival Rates (%)	Actual			Expected		
	3 Months (n= 96)	1 Year (n=96)	Cond. 3 Yrs (n=65)	3 Months (n=96)	1 Year (n=96)	Cond. 3 Yrs (n=65)
0-40	7.3	9.4	1.5	0.0	0.0	0.0
>40-60	6.3	14.6	1.5	0.0	1.0	0.0
>60-80	25.0	42.6	12.3	7.3	84.4	4.6
>80-90	25.0	14.6	21.5	92.7	14.6	12.3
>90-100	36.4	18.8	63.2	0.0	0.0	83.1
<b>TOTAL</b>	100.0	100.0	100.0	100.0	100.0	100.0



Table II-4. Percentages of Pancreas Transplant Programs by Graft Survival Rates and Era

Graft Survival Rates (%)	Actual				Expected			
	3 Months		1 Year		3 Months		1 Year	
	Era 1 (n=70)	Era 2 (n=86)	Era 1 (n=70)	Era 2 (n=86)	Era 1 (n=70)	Era 2 (n=86)	Era 1 (n=70)	Era 2 (n=86)
0-40	10.0	4.7	14.3	9.3	0.0	0.0	0.0	0.0
>40-60	10.0	5.8	15.7	9.3	0.0	0.0	1.4	1.2
>60-80	28.6	22.1	45.7	36.0	14.3	1.2	87.1	67.4
>80-90	24.3	27.9	14.3	19.8	85.7	98.8	11.5	31.4
>90-100	27.1	39.5	10.0	25.6	0.0	0.0	0.0	0.0
<b>TOTAL</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

**Differences in Actual and Expected Survival Rates**

For most programs, the difference between the actual survival rate and the expected survival rate was not statistically significant. Figure II-1 shows the percentages of programs whose actual graft survival rates were either above, equal to, or below expected graft survival rates at three time points. Programs with actual survival rates that were not significantly different from expected rates are shown in the actual survival equals expected survival group. Actual survival rates shown in the figure to be greater than or less than expected survival rates were statistically significant. Overall, there were more programs that fell significantly below expected results than above expected results. However, for the majority of the transplant programs, the difference in actual and expected graft survival was not statistically significant.

At all time points, the larger differences in actual and expected rates were nearly always seen in programs that reported relatively few transplants during the period. This occurs because programs that do not perform many transplants tend to have highly variable outcomes. To illustrate this, Figure II-2 shows a scatter plot of the average number of transplants per year (transplant volume) versus the difference in 1 year actual and expected graft survival. Nearly all differences greater than 10% (either positive or

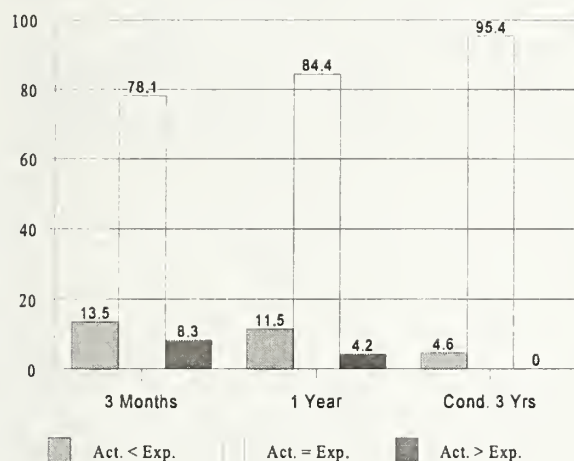
negative) are found among transplant programs performing fewer than 12 pancreas transplants per year. Please note that actual survival rates which differ from expected survival rates are not always statistically significant and even statistically significant differences may not be clinically significant.

**D. PATIENT SURVIVAL -- PERCENTAGES OF ACTUAL AND EXPECTED SURVIVAL RATES**

The percentages of programs by patient survival rates for both actual and expected survival are shown in Table II-5; the percentages of programs by survival rates and eras are shown in Table II-6. As with graft survival, the outcomes in Era 2 were better than in Era 1.

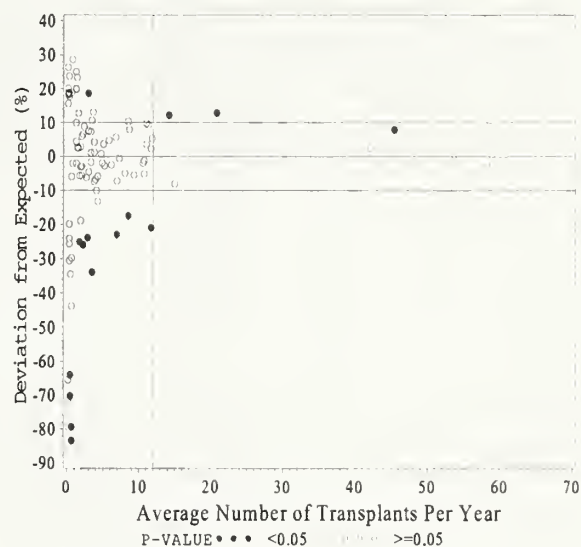


**Figure II-1. Percentages of Pancreas Transplant Programs with Actual Graft Survival Rates Above, Below, or Equal to Expected Survival Rates. \***



\*Actual survival rates above or below expected survival rates are statistically significant.

**Figure II-2. Pancreas Transplant Volume vs Difference in Actual and Expected 1 Year Graft Survival Rates.**



**Table II-5. Percentages of Pancreas Transplant Programs by Patient Survival Rates**

Patient Survival Rate (%)	Actual			Expected		
	3 Months (n= 96)	1 Year (n=96)	Cond. 3 Yrs (n=69)	3 Months (n=96)	1 Year (n=96)	Cond. 3 Yrs (n=69)
0-70	2.1	5.1	5.8	0.0	0.0	0.0
>70-80	3.1	6.3	1.4	0.0	0.0	0.0
>80-90	6.3	25.0	23.2	0.0	20.8	11.6
>90-95	13.5	16.7	29.0	18.8	79.2	84.1
>95-100	75.0	46.9	40.6	81.2	0.0	4.3
<b>TOTAL</b>	100.0	100.0	100.0	100.0	100.0	100.0



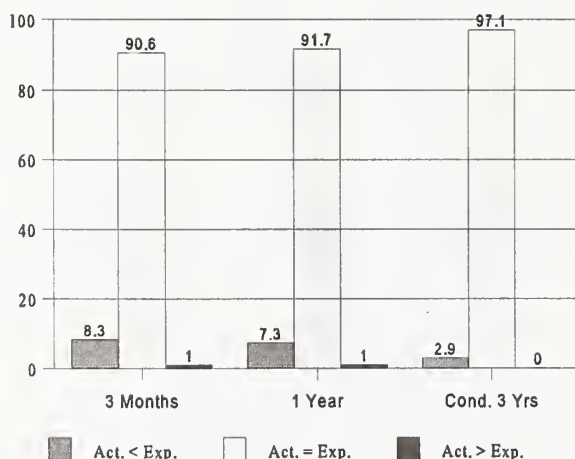
Table II-6. Percentages of Pancreas Transplant Programs by Patient Survival Rates and Era

Patient Survival Rates (%)	Actual				Expected			
	3 Months		1 Year		3 Months		1 Year	
	Era 1 (n=70)	Era 2 (n=86)	Era 1 (n=70)	Era 2 (n=86)	Era 1 (n=70)	Era 2 (n=86)	Era 1 (n=70)	Era 2 (n=86)
0-70	8.6	0.0	11.4	3.5	0.0	0.0	0.0	0.0
>70-80	2.9	1.2	11.4	4.7	0.0	0.0	0.0	0.0
>80-90	14.3	5.8	22.9	18.6	0.0	0.0	41.4	8.1
>90-95	17.1	4.7	20.0	18.6	54.3	1.2	58.6	91.9
>95-100	57.1	88.3	34.3	54.6	45.7	98.8	0.0	0.0
<b>TOTAL</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

### Differences in Actual and Expected Survival Rates

The percentage of programs with actual patient survival rates significantly above their expected rates was only 1% for short term survival, and no programs had actual rates significantly greater than expected for long term survival (see Figure II-3). As with graft survival, there were more programs that fell significantly below expected results than above

**Figure II-3. Percentages of Pancreas Transplant Programs with Actual Patient Survival Rates Above, Below, or Equal to Expected Survival Rates. \***



\* Actual survival rates above or below expected survival rates are statistically significant.

expected results. However, for the majority of transplant programs, the difference in actual and expected patient survival was not statistically significant and varied little over time.

### E. NATIONAL DISTRIBUTION OF DONOR AND RECIPIENT CHARACTERISTICS

The national distribution of donor and recipient characteristics for pancreas transplants, presented in percentages, is shown in Table II-7. Each of these donor and recipient characteristics was included in the analyses for graft or patient survival, and those that proved to be significant were used to determine an expected survival rate for each transplant.

The majority of pancreata transplanted were recovered from white male donors under the age 30. Most recipients were under the age of 18 at the onset of their diabetes. Of the 3,222 transplants, 87% of the patients received a kidney at the same time, and less than 4% were repeat pancreas transplants.



Table II-7. National Donor and Recipient Characteristics in Pancreas Transplants: Percentages by Era and Overall

		ERA 1 5/92-4/94	ERA 2 5/92-4/94	OVERALL 1/88-4/94
<u>Characteristics</u>		<u>N=1,826</u>	<u>N=1,396</u>	<u>N=3,222</u>
Donor Age	0-17	20.8	24.9	22.6
	18-29	40.6	37.5	39.3
	30-39	19.9	17.6	18.9
	40-49	13.9	14.0	14.0
	50+	4.8	6.0	5.3
Donor Race	White	88.7	83.9	86.6
	Black	7.0	9.7	8.2
	Hispanic	3.4	4.9	4.1
	Asian	0.5	1.0	0.7
	Other	0.4	0.4	0.4
Recipient Age	0-17	0.1	0.1	0.1
	18-29	21.7	16.1	19.3
	30-39	49.3	51.2	50.2
	40-49	25.8	28.7	27.1
	50+	3.0	3.8	3.3
Recipient Race	White	93.5	89.3	91.7
	Black	3.8	6.0	4.7
	Hispanic	1.8	2.2	2.0
	Asian	0.3	0.3	0.3
	Other	0.7	2.1	1.3
	Not Reported	0.0	0.1	0.0
Age at Diabetes Onset	0-9	35.0	30.1	32.9
	10-17	44.6	44.8	44.7
	18-30	18.1	20.1	19.0
	31+	2.0	1.6	1.8
	Not Reported	0.3	3.4	1.6



		ERA 1	ERA 2	OVERALL
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1.1	1.1	1.1
	10-19	28.5	25.5	27.2
	20-29	54.1	52.9	53.5
	30-39	14.7	15.8	15.2
	40+	1.3	1.3	1.3
	Not Reported	0.3	3.4	1.6
<b>Previous Pancreas Transplant</b>	No	95.9	96.3	96.1
	Yes	4.1	3.7	3.9
<b>Transplant Procedure*</b>	SKP	86.1	88.2	87.0
	PAK	6.5	6.1	6.3
	PTA	7.3	5.7	6.6
<b>Cold Ischemic Time (Hours)</b>	0-8	24.4	14.0	19.9
	9-13	29.5	33.1	31.0
	14-18	24.9	29.6	26.9
	19-23	14.6	17.3	15.8
	24+	5.1	5.0	5.1
	Not Reported	1.5	1.0	1.3
<b>Level of Mismatch</b>	0	1.0	1.1	1.1
	1	2.0	2.7	2.3
	2	7.6	9.1	8.2
	3	18.4	20.2	19.2
	4	28.4	29.7	29.0
	5	28.5	24.3	26.7
	6	12.4	11.6	12.0
	Not Reported	1.8	1.2	1.5
<b>Year of Transplant</b>	1988	12.7	0.0	7.2
	1989	21.5	0.0	12.2
	1990	28.3	0.0	16.0
	1991	28.6	0.0	16.2
	1992	8.9	27.7	17.0
	1993-1994	0.0	72.3	31.3

\* Procedure types: SKP-Simultaneous Kidney/Pancreas, PAK-Pancreas after Kidney, PTA-Pancreas transplanted alone.



### Donor and Recipient Trends

National donor and recipient characteristics changed between Era 1 and Era 2. The percentage of minority donors and recipients increased from 11.3% to 16.1% and from 6.5% to 10.7% respectively. There was a slightly higher percentage of simultaneous kidney-pancreas transplants in Era 2. Also, more transplants had longer cold ischemic times (> 8 hours).

### **F. SHORT TERM SURVIVAL -- IMPACT OF DONOR AND RECIPIENT CHARACTERISTICS**

To determine the expected survival for each transplant or patient, separate analyses were performed for graft and patient survival at three time points. (The analyses were performed using logistic regression, see the *Technical Methods* chapter in the *Executive Summary*.) The analyses also identified donor and recipient characteristics that had a significant impact on survival outcomes. For each *characteristic* (e.g., race, gender) considered in the analyses, a *reference group* was chosen (e.g., White, male) with which the other groups were compared. As a general rule, the largest group or the mean of the characteristic (e.g., mean recipient age=36) is often used as the reference group.

The following served as the characteristics and reference groups for *short term graft* survival:

- Mean Donor Age -- 28 years
- Previous Pancreas Transplant -- no
- Mean Recipient Age -- 36 years
- Procedure Type -- simultaneous kidney-pancreas
- Transplant Year -- 1988

The following served as the characteristics and reference groups for *short term patient* survival:

- Mean Donor Age -- 28 years
- Mean Cold Ischemic Time -- 14 hours
- Mean Recipient Age -- 36 years
- Recipient Race -- non-Black
- Transplant Year -- 1988

The relative impact of each donor and recipient characteristic on short term graft and patient survival outcomes is listed in Table II-8. For each characteristic, the *odds ratio* is the odds of patient death (graft failure) as compared to the reference group, after adjusting for the effects of all other donor

and recipient characteristics. An *odds ratio of less than 1* indicates that the characteristic was associated with a *reduced odds* of patient death or graft failure relative to the reference group. An odds ratio of *greater than 1* indicates that the characteristic was associated with an *increased odds* of death relative to the reference group. The corresponding p-value measures the significance of the odds ratio. A p-value less than 0.05 indicates statistical significance and means that there is less than a 5% probability that such difference is due to chance alone. The smaller the p-value, the greater the statistical significance and the less likely the difference is due to chance alone.

### **Examples**

In Table II-8, the odds ratio of graft failure within 1 year after a repeat transplant versus a first, or primary, transplant was 1.85. This means that, after adjusting for all of the other donor and recipient characteristics, the odds of graft failure within 1 year was 85% greater for repeat transplants than for primary transplants  $((1.85-1) \times 100\% = 85\%)$ . As another example, the odds ratio of graft failure within 1 year post-transplant for a recipient who received a pancreas alone versus a simultaneous kidney-pancreas was 2.91. After adjusting for the effects of both donor and recipient characteristics, the odds of graft failure within 1 year for a patient who received a pancreas alone was 191% higher than that for a patient who received a simultaneous kidney-pancreas  $((2.91-1) \times 100\% = 191\%)$ .

The estimated odds ratios for continuous variables (i.e., variables with many possible values) such as cold ischemic time, and donor and recipient ages are less easily interpreted. For these variables, the estimated odds is determined for every 1 or 10 unit increase or decrease from the mean (reference group) of the variable. For example, in Table II-8, the estimated odds of 1 year graft failure for a pancreas from a 38 year old donor compared to the mean of 28 years is 1.22. This means that, after adjusting for the effects of all other characteristics, the odds of graft failure was estimated to increase by 22% for the first 10 year increase from the mean donor age.

An increase of 20 years from the mean (i.e., the donor age is  $28+20=48$ ) would result in a 48% increase in the odds of graft failure.

Mathematically, this 48% was calculated as follows:

$$\text{Odds ratio} = \exp^{\left(\frac{20}{10} \times 0.1957\right)} = 1.48$$



where the 20 year increase is equivalent to 2 per 10 year difference, and 0.1957 corresponds to the coefficient of donor age per 10 year difference (see Table II-11 for coefficients). Therefore, the increase in the odds of graft failure is  $(1.48-1) \times 100\% = 48\%$ . For some variables such as recipient age, it is

necessary to add a quadratic term. For more details on calculating odds ratios for continuous variables, refer to the section on *Odds Ratios* in the *Technical Methods* chapter of the *Executive Summary*.

**Table II-8. Impact of Donor and Recipient Characteristics on Short Term Graft and Patient Survival--Pancreas Transplants**

Short Term Characteristics	Graft Survival <sup>1</sup>				Patient Survival <sup>1</sup>			
	3 Months		1 Year		3 Months		1 Year	
	Odds Ratio	P-value <sup>2</sup>	Odds Ratio	P-value <sup>2</sup>	Odds Ratio	P-value <sup>2</sup>	Odds Ratio	P-value <sup>2</sup>
Donor Age 38 vs 28 <sup>3,5</sup>	1.239	<0.001	1.216	<0.001	1.122	0.162	1.085	0.129
Cold Ischemic Time (hours) 15 vs 14 <sup>3</sup>	---	n.d.	---	n.d.	0.969	0.061	0.986	0.197
Previous Pancreas Transplant -- Yes vs No	1.118	0.645	1.851	0.004	---	n.d.	---	n.d.
Recipient Age 46 vs 36 <sup>3,4</sup>	1.022	0.808	1.147	0.066	1.026	0.846	1.360	0.001
Recipient Black vs non-Black	---	n.d.	---	n.d.	1.696	0.143	0.933	0.822
Pancreas After Kidney vs Simultaneous Kidney-Pancreas	2.115	<0.001	2.421	<0.001	---	n.d.	---	n.d.
Pancreas Alone vs Simultaneous Kidney-Pancreas	1.463	<0.001	2.906	<0.001	---	n.d.	---	n.d.
TX Year 1989 vs 1988	0.630	0.025	0.830	0.316	0.832	0.615	0.798	0.409
TX Year 1990 vs 1988	0.756	0.147	1.149	0.428	0.941	0.858	0.969	0.900
TX Year 1991 vs 1988	0.513	0.001	0.679	0.031	0.705	0.333	0.578	0.045
TX Year 1992 vs 1988	0.552	0.003	0.653	0.018	0.676	0.279	0.730	0.230
TX Year 1993-1994 vs 1988	0.545	0.001	0.725	0.050	0.347	0.003	0.589	0.032

Notes:

- <sup>1</sup> In the short term survival analysis, if a patient died with a functioning graft (DWFG), the pancreas was considered to have failed at the time of death.
- <sup>2</sup> n.d. denotes p-value not determined due to either (a) using a different reference group, or (b) results not statistically significant, and therefore factor is not included in the analysis.
- <sup>3</sup> Odds ratios for continuous covariates (donor and recipient age, and cold ischemic time) do not always have a linear relationship in all models. The odds ratios presented in this table correspond to 1 or 10 unit increases from the mean of each covariate. The mean donor age was 28. The mean cold ischemic time was 14 hours. The mean recipient age was 36.
- <sup>4</sup> Graft model contains a quadratic term.
- <sup>5</sup> Patient model contains a quadratic term.



### Graft Survival

The factors that had the strongest impact on short term graft survival were procedure type, previous pancreas transplant, donor age, and transplant year. The odds of 1 year graft failure was 191% higher for recipients of a pancreas alone, and 142% higher for a recipient of a pancreas after a kidney than for a recipient who received a simultaneous kidney-pancreas transplant. Patients who had a previous pancreas transplant had an 85% higher odds of 1 year graft failure than patients receiving their first pancreas. Recipients of a pancreas from a 38 year old donor had a 24% higher odds of 3 month graft failure than did a recipient of a pancreas from a 28 year old donor. Patients receiving their graft in 1993 or 1994 had a 45% lower odds of graft failure than did patients receiving their graft in 1988.

### Patient Survival

The factors that had the strongest impact on short term patient survival were recipient race, donor age, and transplant year. Black recipients had a 70% higher odds of death at 3 months than did non-Blacks. A 46 year old recipient had a 36% higher odds of death at 1 year compared to a 36 year old recipient. A patient who receives a pancreas from a 38 year old donor has a 9% higher odds of death at 1 year than a patient who receives a pancreas from a 28 year old donor. A patient who received a pancreas in 1993 or 1994 had a 65% lower odds of mortality at 3 months than did a patient who received a pancreas in 1988.

## **G. LONG TERM SURVIVAL -- IMPACT OF DONOR AND RECIPIENT CHARACTERISTICS**

In this report, *long term* survival analyses were developed separately from the short term survival analyses. Because this narrative focuses on conditional 3 year survival (survival at 3 years for grafts or patients surviving at least 1 year post-transplant), only conditional 3 year survival data are presented in this text. Both conditional and unconditional 3 year survival rates are provided in the tables for each transplant program.

The conditional 3 year survival analyses provide an assessment of the donor and recipient characteristics that are independent of those limited to the first year (e.g., surgical complications). Furthermore, for the long term survival analysis, if a patient died with a functioning graft, the graft was not considered to have

failed as it was with short term survival. *This was done because deaths occurring some years after a transplant are less likely to be related to the transplant.*

The impact of each donor and recipient characteristic on graft and patient long term survival is listed in Table II-9.

The following characteristic and reference group was used for *long term graft* survival:

- Procedure Type -- simultaneous kidney-pancreas

The following characteristics and reference groups were used for *long term patient* survival:

- Mean Donor Age -- 28 years
- Donor Race -- non-Black
- Mean Cold Ischemic Time -- 14 hours
- Mean Years Between Diabetes Onset and Transplant -- 23 years
- Mean Recipient Age -- 36 years

### Graft and Patient Survival

The only significant factor in the conditional 3 year graft survival model was procedure type. Patients who received a pancreas after a kidney had a 521% higher odds of graft failure, and patients who received a pancreas alone had a 630% higher odds of graft failure than did patients receiving a simultaneous kidney-pancreas transplant.

Factors that impacted long term patient survival were donor and recipient age, cold ischemic time, years between diabetes onset and transplant, and donor race. Patients who received a pancreas from a black donor had a 77% higher odds of death than a recipients of a non-Black donor pancreas. A 46 year old recipient had a 38% higher odds of death than did a 36 year old recipient. A patient who received a pancreas from a 38 year old donor had a 23% higher odds of death at 3 years than a recipient of a 28 year old donor pancreas.



**Table II-9. Impact of Donor and Recipient Characteristics on Long Term Graft and Patient Survival -- Pancreas Transplants**

Long Term Characteristics	Graft <sup>1</sup>		Patient <sup>1</sup>	
	Odds Ratio	P-value <sup>2</sup>	Odds Ratio	P-value <sup>2</sup>
Donor Age 38 vs 28 <sup>3</sup>	---	n.d.	1.232	0.008
Donor Black vs Non-Black	---	n.d.	1.773	0.072
Cold Ischemic Time (hours) 15 vs 14 <sup>3,4</sup>	---	n.d.	0.989	0.436
Recipient Age 46 vs 36 <sup>3,4</sup>	---	n.d.	1.376	0.065
Years Between Diabetes Onset and Transplant 24 vs 23 <sup>3</sup>	---	n.d.	1.026	0.120
Pancreas After Kidney vs Simultaneous Kidney-Pancreas	6.212	<0.001	---	n.d.
Pancreas Alone vs Simultaneous Kidney-Pancreas	7.298	<0.001	---	n.d.

Notes:

- <sup>1</sup> In the long term survival analysis, if a patient died with a functioning graft (DWFG), the pancreas was not considered to have failed at the time of death.
- <sup>2</sup> n.d. denotes p-value not determined due to either (a) using a different reference group, or (b) results not statistically significant, and therefore factor is not included in the analysis.
- <sup>3</sup> Odds ratio for continuous covariates (donor age, cold ischemic time, recipient age, and years between diabetes onset and transplant) do not all have a linear relationship. The odds ratios presented in this table correspond to 1 or 10 unit increases from the mean of each covariate. The mean donor age was 28. The mean cold ischemic time was 14 hours. The mean recipient age was 36, the mean number of years between diabetes onset and transplant was 23 years.
- <sup>4</sup> Model contains a quadratic term.

## H. COMPARISON BETWEEN SHORT TERM AND LONG TERM CHARACTERISTICS

The factor that had the greatest impact on short term graft survival, procedure type, had an even greater impact on long term graft survival. The odds of graft failure for receiving a pancreas after a kidney as opposed to a simultaneous kidney-pancreas transplant went from 115% at 3 months to 142% at 1 year to 521% in the conditional 3 year analysis. The odds of graft failure for a pancreas alone versus a simultaneous kidney-pancreas transplant increased from 46% at 3 months to 630% for long term conditional survival. The remaining factors that impacted short term graft survival did not significantly impact long term graft survival.

Most of the factors that impacted short term patient

survival continued to impact long term patient survival. The odds of death for a 10 year increase from the mean for both donor and recipient age increased over time. While the number of years between diabetes onset and transplant did not have a significant impact on short term survival, it did have an impact on long term survival. Race played a factor in both short and long term patient survival. In the short term model Black recipients had a 70% higher odds of death at 3 months than did non-Blacks, and in the long term model a recipient of a pancreas from a Black donor had a 77% higher odds of death than that of a recipient of a non-Black donor pancreas.



## I. STATISTICAL METHODS AND MODELS

*This section provides a brief summary of the statistical methods used to determine survival rates for pancreas transplants, both nationally and at each transplant program. It is not necessary to read this section in order to utilize the rest of the report. For additional statistical details, please see the Technical Methods chapter in the Executive Summary.*

### Model Significance -- $R^2$

The conclusion that there is a “center effect” in pancreas transplantation often is based on the observation that actual survival rates vary considerably among pancreas transplant programs. However, in reality, only part of the variability can be attributed to the quality of the program (the so called “center effect”); the rest can be attributed to the differences in donor and recipient characteristics among transplant programs. The degree to which the variability in actual survival rates can be attributed to the specific donor and recipient characteristics in each analysis appears in Table II-10. In the table, the values in the column labeled  $R^2$  estimate the percentage of variability in the actual survival rates that can be attributed to the covariates in each

analysis. The higher the percentage, the better the analysis explained the individual program outcomes, based on the characteristics examined. Theoretically, if an analysis contained every covariate that affected survival outcomes, and there were no differences in quality among programs (i.e., no “center effect”), then  $R^2$  would equal 100%. In practice, we can never capture every factor that affects outcomes, and it is likely that real differences among programs do exist. This means that any unexplained variation can probably be attributed to a combination of true center effect and covariates not considered in this study. (For details on the  $R^2$  calculation, refer to the *Model Significance* section in the *Technical Methods* chapter of the *Executive Summary*.)

The value of  $R^2$  estimated from analyses in the 1994 Report was compared to the value of the  $R^2$  analyses in the 1997 Report. Note that these analyses are not *directly* comparable since each was used with a different cohort of transplants. Despite the refinements in the 1997 Report, as compared to the 1994 Report, much of the variation in actual survival rates among the 96 transplant programs in the study remains unexplained by the analyses. This suggests that much of the risk involved in transplantation is due to characteristics not described in this report.

**Table II-10. Pancreas Model  $R^2$ : Comparison of the 1994 and 1997 Reports**

Outcome	Time Point	Report Year	Number of Covariates	$R^2$
Graft Model $R^2$	3 Months	1997	12	33.7
		1994	13	29.7
	1 Year	1997	12	34.1
		1994	13	36.9
	Conditional 3 Years*	1997	3	31.0
		1994	N.A.	N.A.
Patient Model $R^2$	3 Months	1997	11	15.6
		1994	9	14.1
	1 Year	1997	11	8.3
		1994	9	20.7
	Conditional 3 Years*	1997	8	32.6
		1994	N.A.	N.A.

\* Conditional 3 year analysis was not performed in the 1994 report.



### Estimated Coefficients and Standard Errors from the Logistic Regression Models

Tables II-11 and II-12 list the coefficients and the standard errors of the coefficients at each time point for all of the donor and recipient characteristics used in the logistic regression models. Each coefficient is reported on the logistic scale and represents the log<sub>e</sub>

odds of graft failure or the log<sub>e</sub> odds of patient mortality for the corresponding characteristic at the specified time after transplant. The adjusted odds ratio on the probability scale may be obtained by applying the exponential function to the coefficient. For further details, see the *Odds Ratios* section in the *Technical Methods* chapter of the *Executive Summary*.

**Table II-11. Model Coefficients and Standard Errors for Donor and Recipient Characteristics in Short Term Pancreas Transplant Survival**

Short Term Characteristics	Graft Survival				Patient Survival			
	3 Months		1 Year		3 Months		1 Year	
	Model Coeff.	Std. Error	Model Coeff.	Std. Error	Model Coeff.	Std. Error	Model Coeff.	Std. Error
Intercept	-1.265	0.162	-1.038	0.151	-2.699	0.296	-1.992	0.219
Donor Age - Linear (per 10 years) <sup>1,2</sup>	0.214	0.038	0.196	0.034	0.221	0.098	0.110	0.064
-Quadratic (per 10 years)	---	---	---	---	-0.106	0.066	-0.028	0.041
Cold Ischemic Time (per hour) <sup>1</sup>	---	---	---	---	-0.031	0.017	-0.015	0.011
Previous Pancreas Transplant -- Yes vs No	0.112	0.243	0.616	0.215	---	---	---	---
Recipient Age -Linear (per 10 years) <sup>1,2</sup>	0.003	0.070	0.036	0.060	0.026	0.133	0.308	0.090
-Quadratic (per 10 years)	0.019	0.072	0.102	0.061	---	---	---	---
Recipient Black vs non-Black	---	---	---	---	0.529	0.361	-0.070	0.310
Pancreas After Kidney vs Simultaneous Kidney-Pancreas	0.749	0.191	0.884	0.172	---	---	---	---
Pancreas Alone vs Simultaneous Kidney-Pancreas	0.380	0.181	1.067	0.150	---	---	---	---
TX Year 1989 vs 1988	-0.462	0.206	-0.187	0.186	-0.184	0.365	-0.226	0.274
TX Year 1990 vs 1988	-0.279	0.192	0.139	0.175	-0.061	0.342	-0.032	0.254
TX Year 1991 vs 1988	-0.668	0.201	-0.388	0.180	-0.349	0.361	-0.548	0.274
TX Year 1992 vs 1988	-0.595	0.198	-0.426	0.180	-0.391	0.362	-0.315	0.262
TX Year 1993-1994 vs 1988	-0.608	0.180	-0.321	0.164	-1.059	0.361	-0.529	0.247

Notes:

<sup>1</sup> In the analysis, the continuous covariates (donor age, cold ischemic time, and recipient age) were centered at their mean. The mean donor age was 28. The mean cold ischemic time was 14 hours. The mean recipient age was 36.

<sup>2</sup> Modeling the continuous covariates with a linear and a quadratic term (the square of the linear term) is necessary due to the relationship between the covariate and the odds of graft failure or patient death.



**Table II-12. Model Coefficients and Standard Errors for Donor and Recipient Characteristics in Long Term Pancreas Transplant Survival**

Long Term Characteristics	Graft Survival		Patient Survival	
	Model Coefficient	Standard Error	Model Coefficient	Standard Error
Intercept	-2.704	0.122	-2.848	0.153
Donor Age - Linear (per 10 years) <sup>1</sup>	---	---	0.209	0.079
Donor Black vs Non-Black	---	---	0.573	0.318
Cold Ischemic Time - Linear (per hour) <sup>1,2</sup>	---	---	-0.016	0.015
-Quadratic (per hour)	---	---	0.004	0.002
Recipient Age - Linear (per 10 years) <sup>1,2</sup>	---	---	0.112	0.158
-Quadratic (per 10 years)	---	---	0.207	0.140
Years Between Diabetes Onset and Transplant - Linear (per year) <sup>1</sup>	---	---	0.026	0.017
Pancreas After Kidney vs Simultaneous Kidney-Pancreas	1.826	0.313	---	---
Pancreas Alone vs Simultaneous Kidney-Pancreas	1.988	0.287	---	---

Notes:

- <sup>1</sup> In the analysis, the continuous covariates (donor age, cold ischemic time, and recipient age) were centered at their mean. The mean donor age was 28. The mean cold ischemic time was 14 hours. The mean recipient age was 36. The mean years between diabetes onset and transplant was 23 years.
- <sup>2</sup> Modeling the continuous covariates with a linear and a quadratic term (the square of the linear term) is necessary due to the curvilinear relationship between the covariate and the odds of graft failure or patient death.

**Expected Pancreas Transplant Survival Rates**

Table II-13 shows the 1 year *expected graft* survival rates for pancreas transplants for a given set of donor and recipient characteristics; Table II-14 shows the 1 year *expected patient* survival rates. These rates were determined using the following characteristics: recipient age, donor age, and procedure type. For these analyses, all other characteristics were set to the values for the reference groups, with the exception of the year of transplant (1993 or 1994). The complete list of reference groups is shown on page 19.

For example, in Table II-13, the expected 1 year graft survival for a 35 year old recipient of a pancreas alone from a 20 year old donor was 61%. In contrast, a simultaneous kidney-pancreas transplant of a 20 year old donor into a 35 year old recipient

was 82%. Please note that procedure type did not significantly impact 1 year patient survival, so there was no difference reported in expected 1 year patient survival across procedure types.



Table II-13. Expected U.S. 1 Year Graft Survival Rates -- Pancreas Transplants Stratified by Recipient Age, Donor Age, and Procedure Type

Recipient Age	Donor Age	Procedure Type		
		Simultaneous Kidney-Pancreas	Pancreas After Kidney	Pancreas Alone
20	20	78.73	60.47	56.02
	30	75.27	55.71	51.16
	35	73.41	53.28	48.71
	40	71.45	50.84	46.27
	50	67.30	45.95	41.46
30	20	81.65	64.77	60.49
	30	78.54	60.19	55.73
	35	76.84	57.82	53.31
	40	75.05	55.42	50.87
	50	71.21	50.54	45.98
35	20	81.89	65.13	60.87
	30	78.80	60.56	56.12
	35	77.12	58.20	53.70
	40	75.35	55.80	51.26
	50	71.54	50.94	46.37
40	20	81.36	64.32	60.03
	30	78.21	59.72	55.25
	35	76.49	57.34	52.82
	40	74.69	54.93	50.38
	50	70.81	50.06	45.50
50	20	77.74	59.06	54.58
	30	74.17	54.26	49.70
	35	72.25	51.82	47.26
	40	70.25	49.38	44.83
	50	66.00	44.51	40.05



Table II-14. Expected U.S. 1 Year Patient Survival Rates -- Pancreas Transplants Stratified by Recipient Age, Donor Age, and Procedure Type

Recipient Age	Donor Age	Procedure Type		
		Simultaneous Kidney-Pancreas	Pancreas After Kidney	Pancreas Alone
20	20	95.71	95.71	95.71
	30	95.17	95.17	95.17
	35	94.98	94.98	94.98
	40	94.85	94.85	94.85
	50	94.80	94.80	94.80
30	20	94.25	94.25	94.25
	30	93.55	93.55	93.55
	35	93.30	93.30	93.30
	40	93.13	93.13	93.13
	50	93.06	93.06	93.06
35	20	93.36	93.36	93.36
	30	92.55	92.55	92.55
	35	92.27	92.27	92.27
	40	92.08	92.08	92.08
	50	92.00	92.00	92.00
40	20	92.34	92.34	92.34
	30	91.42	91.42	91.42
	35	91.10	91.10	91.10
	40	90.88	90.88	90.88
	50	90.79	90.79	90.79
50	20	89.86	89.86	89.86
	30	88.68	88.68	88.68
	35	88.27	88.27	88.27
	40	87.99	87.99	87.99
	50	87.88	87.88	87.88



## J. SUMMARY

### Study Period

The 1997 Report was based on 3,222 pancreas transplants performed in 3,142 patients between January 1, 1988, and April 30, 1994, from 96 transplant programs in the United States. In order to assess changes within transplant programs over time, the data were divided into 2 eras. The first era included transplants performed from January 1, 1988, through April 30, 1992; and the second era covered the two year time period from May 1, 1992, through April 30, 1994.

### Survival Rates

Survival rates were computed at 3 months, 1 year, and 3 years, both nationally and for each transplant program. Three year survival was determined in two ways: (1) conditional 3 year survival (i.e., survival at 3 years for those who survived at least 1 year post-transplant), and (2) unconditional 3 year survival. The emphasis on long term survival in this chapter is on the conditional 3-year survival rates because the conditional 3-year analysis provides an assessment of characteristics independent of those limited to the first year (e.g., surgical complications and early acute

rejection events).

The national graft and patient survival rates and completeness of follow-up at 3 months, 1 year, and conditional 3 years are shown in Tables II-1 and II-2 (page 12). The percent of programs with graft and patient follow-up data at 1 year was more than 96%; at conditional 3 years the percent of programs with follow-up data was 94%.

There was a marked increase in both the number of pancreas transplants and in the actual graft and patient survival rates from Era 1 to Era 2. As demonstrated in Table II-15, graft survival rates increased 2.8% at 3 months and 3.8% at 1 year in Era 2 from Era 1. Patient survival rates increased 2.6% at 3 months and 1.7% at 1 year during the study period.

For the majority of transplant programs, the difference between actual and expected survival rates was not statistically significant (See Figures II-1 and II-3). In general, large differences (either higher or lower) were nearly always found among programs that reported relatively few transplants (see Figure II-2). Therefore, when evaluating survival rates for a program, it is also important to consider the number of transplants performed there.

**Table II-15. Comparison of 3 Month and 1 Year Actual Survival Rates Between Eras**

	3 Months		1 Year	
	Era 1	Era 2	Era 1	Era 2
<b>Graft Survival (%)</b>	82.4%	85.2%	71.9%	75.7%
<b>Average No. of Transplants/ Month</b>	35.1	58.2	35.1	58.2
<b>Patient Survival (%)</b>	94.9%	97.5%	90.4%	92.1%
<b>Average No. of Patients/Month</b>	34.5	57.5	34.5	57.5



**Differences Between Short Term and Long Term Characteristics**

The 1997 Report includes an extensive list of characteristics that have a significant impact on both short and long term graft and patient survival.

Characteristics with the strongest impact on *short term graft survival* were:

- Procedure type
- Previous pancreas transplant
- Year of transplant

Characteristics with the strongest impact on *short term patient survival* were:

- Recipient race
- Recipient age
- Donor age
- Year of transplant

Characteristic with the strongest impact on *long term graft survival* was:

- Procedure type

Characteristics with the strongest impact on *long term patient survival* were:

- Donor race
- Donor age
- Recipient age

**K. FINAL WORDS**

The purpose of this report is to provide updated information on survival outcomes both nationally and at specific transplant programs, and to enhance the awareness of program performance in the U.S. However, the assessment of a transplant program should not be based solely on the survival rates provided in this report. Some of the other important factors to consider are the experience of the transplant team, support personnel, the cost of the procedure, and the quality and location of post-transplant services.







### **III. PROGRAM SPECIFIC DATA**







## Index of Pancreas Transplant Programs

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ARUA	040016	The University Hospital of Arkansas, Little Rock, AR . . . . .	2-a
AZGS	030002	Good Samaritan Regional Medical Center, Phoenix, AZ . . . . .	3-a
CALA	050376	Harbor - UCLA Medical Center, Torrance, CA . . . . .	4-a
CALL	050327 *	Loma Linda University Medical Center, Loma Linda, CA . . . . .	5-a
CAPM	050047 *	California Pacific Medical Center, San Francisco, CA . . . . .	6-a
CASD	050025	UCSD Medical Center, San Diego, CA . . . . .	7-a
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COPM	060064 *	Porter Memorial Hospital, Denver, CO . . . . .	13-a
COSL	060014	Columbia Presbyterian/St. Luke's Medical Center, Denver, CO . . . . .	14-a
COUC	060024	University Hospital, Denver, CO . . . . .	15-a
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## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Alabama Hospital - Birmingham AL  
Provider Number 010033 (ALUA)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	25	72.0	82.5	19	84.2	88.4	44	44	10	77.3	85.1	-7.8	0.14
1 Year	25	68.0	74.4	19	73.7	82.1	44	44	13	70.5	77.7	-7.2	0.24
Cond. <sup>3</sup> 3 Years	17	94.1	93.7				17	16	1	94.1	93.7	0.4	0.95
3 Years <sup>3</sup>		64.0	69.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	25	84.0	94.6	19	89.5	97.4	44	44.0	6.0	86.4	95.8	-9.4	<0.01*
1 Year	25	71.5	90.2	19	84.2	93.3	44	43.0	10.0	77.0	91.5	-14.5	<0.01*
Cond. <sup>3</sup> 3 Years	17	94.1	94.3				17	16.0	1.0	94.1	94.3	-0.2	0.98
3 Years <sup>3</sup>		67.2	85.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Alabama Hospital - Birmingham AL**  
**Provider Number 010033 (ALUA)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>44</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	16	36.4	727	22.6
	18-29	22	50.0	1265	39.3
	30-39	3	6.8	608	18.9
	40-49	2	4.5	450	14.0
	50+	1	2.3	172	5.3
<b>Donor Race</b>	White	35	79.5	2790	86.6
	Black	9	20.5	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	11	25.0	622	19.3
	30-39	31	70.5	1616	50.2
	40-49	2	4.5	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	39	88.6	2955	91.7
	Black	5	11.4	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	13	29.5	1059	32.9
	10-17	21	47.7	1440	44.7
	18-30	9	20.5	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	1	2.3	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	2.3	36	1.1
	10-19	21	47.7	876	27.2
	20-29	20	45.5	1725	53.5
	30-39	1	2.3	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	1	2.3	53	1.6
<b>Previous Pancreas Transplant</b>	No	44	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	43	97.7	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	1	2.3	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	16	36.4	641	19.9
	9-13	18	40.9	1000	31.0
	14-18	8	18.2	867	26.9
	19-23	0	0.0	509	15.8
	24+	2	4.5	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	1	2.3	74	2.3
	2	2	4.5	265	8.2
	3	4	9.1	618	19.2
	4	14	31.8	933	29.0
	5	17	38.6	860	26.7
	6	6	13.6	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	8	18.2	232	7.2
	1989	7	15.9	393	12.2
	1990	7	15.9	517	16.0
	1991	0	0.0	522	16.2
	1992	8	18.2	548	17.0
	1993-1994	14	31.8	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for The University Hospital of Arkansas- Little Rock AR  
Provider Number 040016 (ARUA)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	9	77.8	86.9	15	80.0	85.3	24	24	5	79.2	85.9	-6.7	0.34
1 Year	9	77.8	80.6	15	80.0	76.3	24	24	5	79.2	77.9	1.2	0.88
Cond. <sup>3</sup> 3 Years	7	71.4	93.7				7	7	2	71.4	93.7	-22.3	0.01*
3 Years <sup>3</sup>		55.6	75.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	9	88.9	95.9	15	100.0	97.4	24	24.0	1.0	95.8	96.9	-1.0	0.77
1 Year	9	88.9	93.0	15	100.0	92.3	24	22.0	1.0	95.7	92.6	3.1	0.57
Cond. <sup>3</sup> 3 Years	7	85.7	94.0				7	7.0	1.0	85.7	94.0	-8.3	0.35
3 Years <sup>3</sup>		76.2	87.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**The University Hospital of Arkansas- Little Rock AR**  
**Provider Number 040016 (ARUA)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>24</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	5	20.8	727	22.6
	18-29	9	37.5	1265	39.3
	30-39	5	20.8	608	18.9
	40-49	4	16.7	450	14.0
	50+	1	4.2	172	5.3
<b>Donor Race</b>	White	23	95.8	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	1	4.2	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	4	16.7	622	19.3
	30-39	17	70.8	1616	50.2
	40-49	3	12.5	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	23	95.8	2955	91.7
	Black	1	4.2	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	12	50.0	1059	32.9
	10-17	8	33.3	1440	44.7
	18-30	4	16.7	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	7	29.2	876	27.2
	20-29	16	66.7	1725	53.5
	30-39	1	4.2	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	24	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	23	95.8	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	1	4.2	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	4	16.7	641	19.9
	9-13	15	62.5	1000	31.0
	14-18	4	16.7	867	26.9
	19-23	1	4.2	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	4.2	265	8.2
	3	1	4.2	618	19.2
	4	7	29.2	933	29.0
	5	8	33.3	860	26.7
	6	6	25.0	388	12.0
	Not Reported	1	4.2	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	6	25.0	522	16.2
	1992	5	20.8	548	17.0
	1993-1994	13	54.2	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Good Samaritan Regional Medical Center - Phoenix AZ  
Provider Number 030002 (AZGS)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	2	50.0	79.8				2	2	1	50.0	79.8	-29.8	0.36
1 Year	2	50.0	75.6				2	2	1	50.0	75.6	-25.6	0.43
Cond. <sup>3</sup> 3 Years	1	100.0	93.7				1	1	0	100.0	93.7	6.3	1.00
3 Years <sup>3</sup>		50.0	70.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	2	100.0	92.3				2	1.0	0.0	100.0	92.3	7.7	1.00
1 Year	2	100.0	86.8				2	1.0	0.0	100.0	86.8	13.2	1.00
Cond. <sup>3</sup> 3 Years	1	100.0	87.5				1	1.0	0.0	100.0	87.5	12.5	1.00
3 Years <sup>3</sup>		100.0	76.0										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Good Samaritan Regional Medical Center - Phoenix AZ**  
**Provider Number 030002 (AZGS)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>2</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	50.0	727	22.6
	18-29	0	0.0	1265	39.3
	30-39	1	50.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	2	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	50.0	622	19.3
	30-39	1	50.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	2	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	1	50.0	1059	32.9
	10-17	0	0.0	1440	44.7
	18-30	1	50.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	50.0	876	27.2
	20-29	0	0.0	1725	53.5
	30-39	1	50.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	2	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	2	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	2	100.0	641	19.9
	9-13	0	0.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	0	0.0	933	29.0
	5	1	50.0	860	26.7
	6	1	50.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	2	100.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Harbor-UCLA Medical Center - Torrance CA  
Provider Number 050376 (CALA)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	1	0.0	83.9				1	1	1	0.0	83.9	-83.9	0.16
1 Year	1	0.0	71.8				1	1	1	0.0	71.8	-71.8	0.28
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	1	100.0	93.3				1	1.0	0.0	100.0	93.3	6.7	1.00
1 Year	1	100.0	85.2				1	1.0	0.0	100.0	85.2	14.8	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Harbor-UCLA Medical Center - Torrance CA**  
**Provider Number 050376 (CALA)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	0	0.0	727	22.6
	18-29	1	100.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	0	0.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	1	100.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	0	0.0	1616	50.2
	40-49	1	100.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	1	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	0	0.0	1059	32.9
	10-17	0	0.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	1	100.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	100.0	876	27.2
	20-29	0	0.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	1	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	1	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	100.0	641	19.9
	9-13	0	0.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	1	100.0	933	29.0
	5	0	0.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	1	100.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Loma Linda University Medical Center - Loma Linda CA  
Provider Number 050327 (CALL)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				12	100.0	87.8	12	12	0	100.0	87.8	12.2	0.19
1 Year				12	83.3	80.5	12	12	2	83.3	80.5	2.8	0.80
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				12	100.0	98.2	12	12.0	0.0	100.0	98.2	1.8	0.64
1 Year				12	83.3	93.0	12	12.0	2.0	83.3	93.0	-9.7	0.18
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Loma Linda University Medical Center - Loma Linda CA**  
**Provider Number 050327 (CALL)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>12</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	5	41.7	727	22.6
	18-29	5	41.7	1265	39.3
	30-39	1	8.3	608	18.9
	40-49	1	8.3	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	8	66.7	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	2	16.7	131	4.1
	Asian	2	16.7	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	16.7	622	19.3
	30-39	6	50.0	1616	50.2
	40-49	4	33.3	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	11	91.7	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	1	8.3	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	1	8.3	1059	32.9
	10-17	11	91.7	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	4	33.3	876	27.2
	20-29	6	50.0	1725	53.5
	30-39	2	16.7	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	12	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	12	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	7	58.3	1000	31.0
	14-18	3	25.0	867	26.9
	19-23	2	16.7	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	8.3	265	8.2
	3	3	25.0	618	19.2
	4	2	16.7	933	29.0
	5	2	16.7	860	26.7
	6	4	33.3	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	12	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: Loma Linda University Medical Center  
11234 Anderson Street, Loma Linda, CA 92354  
Provider Number 050327 (CALL)**

May 21, 1997

Loma Linda University Medical Center's pancreas transplant program began in January 1993. From January 1, 1988 to April 30, 1994, Loma Linda University Medical Center has performed 12 simultaneous kidney/pancreas transplants with an overall 1 year patient survival rate of 83.3%.

The survival report of 83.3% does not accurately reflect the quality kidney/pancreas transplant program at Loma Linda University Medical Center, since the program was less than one year old and there was a small patient population. Our historical survival rate is significantly higher. During the first year, two patients died from complications. One patient died 10 months post-transplant from clinical septicemia and liver failure due to cytomegalovirus. The second patient died 5 months post-transplant from post-transplantation lymphoproliferative disorder manifest as immunoblastic sarcoma.

Loma Linda University Medical Center has met the stringent membership criteria in order to become a member of UNOS. We are committed to high quality care for the kidney/pancreas transplant patients and believe the fully integrated multi-disciplinary transplant team contributes to excellent clinical outcomes in our patients.

Okechukwu Ojogho, M.D.  
Director, Pancreas Transplant Program





## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for California Pacific Medical Center - San Francisco CA  
Provider Number 050047 (CAPM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	15	60.0	83.5	12	66.7	87.0	27	27	10	63.0	85.0	-22.1	<0.01*
1 Year	15	60.0	73.6	12	66.7	79.6	27	27	10	63.0	76.2	-13.3	0.10
Cond. <sup>3</sup> 3 Years	9	100.0	93.7				9	9	0	100.0	93.7	6.3	0.44
3 Years <sup>3</sup>		60.0	69.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	15	86.2	94.6	12	100.0	97.4	27	25.5	2.0	92.3	95.8	-3.5	0.37
1 Year	15	72.4	89.7	12	100.0	91.6	27	25.5	4.0	84.4	90.5	-6.1	0.28
Cond. <sup>3</sup> 3 Years	11	100.0	93.3				11	11.0	0.0	100.0	93.3	6.7	0.37
3 Years <sup>3</sup>		72.4	83.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**California Pacific Medical Center - San Francisco CA**  
**Provider Number 050047 (CAPM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>27</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	4	14.8	727	22.6
	18-29	14	51.9	1265	39.3
	30-39	5	18.5	608	18.9
	40-49	4	14.8	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	19	70.4	2790	86.6
	Black	2	7.4	264	8.2
	Hispanic	5	18.5	131	4.1
	Asian	1	3.7	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	4	14.8	622	19.3
	30-39	16	59.3	1616	50.2
	40-49	6	22.2	873	27.1
	50+	1	3.7	107	3.3
<b>Recipient Race</b>	White	26	96.3	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	1	3.7	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	10	37.0	1059	32.9
	10-17	13	48.1	1440	44.7
	18-30	4	14.8	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	5	18.5	876	27.2
	20-29	18	66.7	1725	53.5
	30-39	4	14.8	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	27	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	27	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	2	7.4	641	19.9
	9-13	17	63.0	1000	31.0
	14-18	8	29.6	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	3	11.1	265	8.2
	3	5	18.5	618	19.2
	4	9	33.3	933	29.0
	5	9	33.3	860	26.7
	6	1	3.7	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	1	3.7	393	12.2
	1990	9	33.3	517	16.0
	1991	3	11.1	522	16.2
	1992	5	18.5	548	17.0
	1993-1994	9	33.3	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: California Pacific Medical Center  
2340 Clay Street, San Francisco, CA 94115  
Provider Number 050047 (CAPM)**

May 6, 1997

California Pacific Medical Center's simultaneous Kidney/Pancreas Transplant Program began in December of 1989. The 1997 center specific report includes an analysis of graft and patient survival over two eras, between January of 1988 and April of 1994. We are gratified in the improvement in both graft and patient survival seen between era one and era two. This trend has continued to the present day. Since April of 1994, our patients have enjoyed 100% graft and patient survival.

Simultaneous kidney/pancreas transplantation is evolving into a safer and more successful form of treatment for diabetic patients with renal failure. Advances in both immunosuppression and surgical technique have been made available to our patients. California Pacific Medical Center is committed to providing the best possible patient care.

William I. Bry, M.D.  
Transplant Surgeon

A handwritten signature in cursive script, appearing to read "W. I. Bry".



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for UCSD Medical Center - San Diego CA  
Provider Number 050025 (CASD)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	1	100.0	88.4	12	91.7	86.3	13	13	1	92.3	86.5	5.8	0.54
1 Year	1	100.0	83.2	12	75.0	79.5	13	13	3	76.9	79.8	-2.9	0.79
Cond. <sup>3</sup> 3 Years	1	0.0	93.7				1	1	1	0.0	93.7	-93.7	0.06
3 Years <sup>3</sup>		0.0	77.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	1	100.0	96.6	12	100.0	97.2	13	13.0	0.0	100.0	97.1	2.9	0.53
1 Year	1	100.0	93.4	12	83.3	92.0	13	13.0	2.0	84.6	92.1	-7.5	0.31
Cond. <sup>3</sup> 3 Years	1	100.0	95.8				1	1.0	0.0	100.0	95.8	4.2	1.00
3 Years <sup>3</sup>		100.0	89.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**UCSD Medical Center - San Diego CA**  
**Provider Number 050025 (CASD)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>13</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	2	15.4	727	22.6
	18-29	7	53.8	1265	39.3
	30-39	3	23.1	608	18.9
	40-49	1	7.7	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	11	84.6	2790	86.6
	Black	1	7.7	264	8.2
	Hispanic	1	7.7	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	15.4	622	19.3
	30-39	7	53.8	1616	50.2
	40-49	4	30.8	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	11	84.6	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	2	15.4	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	4	30.8	1059	32.9
	10-17	8	61.5	1440	44.7
	18-30	1	7.7	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	2	15.4	876	27.2
	20-29	9	69.2	1725	53.5
	30-39	2	15.4	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	13	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	13	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	3	23.1	1000	31.0
	14-18	7	53.8	867	26.9
	19-23	3	23.1	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	2	15.4	618	19.2
	4	3	23.1	933	29.0
	5	5	38.5	860	26.7
	6	2	15.4	388	12.0
	Not Reported	1	7.7	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	6	46.2	548	17.0
	1993-1994	7	53.8	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for UCSF Medical Center - San Francisco CA  
Provider Number 050454 (CASF)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	39	92.3	83.5	31	96.8	86.3	70	70	4	94.3	84.7	9.6	0.02*
1 Year	39	84.6	73.7	31	87.1	78.9	70	70	10	85.7	76.0	9.7	0.05
Cond. <sup>3</sup> 3 Years	33	100.0	93.7				33	30	0	100.0	93.7	6.3	0.14
3 Years <sup>3</sup>		84.6	69.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	39	97.4	94.7	31	100.0	97.2	70	70.0	1.0	98.6	95.8	2.8	0.23
1 Year	39	97.4	90.0	31	93.5	91.6	70	70.0	3.0	95.7	90.7	5.0	0.14
Cond. <sup>3</sup> 3 Years	38	86.8	92.8				38	38.0	5.0	86.8	92.8	-5.9	0.15
3 Years <sup>3</sup>		84.6	83.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**UCSF Medical Center - San Francisco CA**  
**Provider Number 050454 (CASF)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>70</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	10	14.3	727	22.6
	18-29	29	41.4	1265	39.3
	30-39	17	24.3	608	18.9
	40-49	13	18.6	450	14.0
	50+	1	1.4	172	5.3
<b>Donor Race</b>	White	52	74.3	2790	86.6
	Black	3	4.3	264	8.2
	Hispanic	11	15.7	131	4.1
	Asian	3	4.3	23	0.7
	Other	1	1.4	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	11	15.7	622	19.3
	30-39	34	48.6	1616	50.2
	40-49	22	31.4	873	27.1
	50+	3	4.3	107	3.3
<b>Recipient Race</b>	White	62	88.6	2955	91.7
	Black	2	2.9	153	4.7
	Hispanic	2	2.9	63	2.0
	Asian	2	2.9	9	0.3
	Other	1	1.4	41	1.3
	Not Reported	1	1.4	1	0.0
<b>Age at Diabetes Onset</b>	0-9	21	30.0	1059	32.9
	10-17	35	50.0	1440	44.7
	18-30	13	18.6	611	19.0
	31+	1	1.4	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	17	24.3	876	27.2
	20-29	41	58.6	1725	53.5
	30-39	11	15.7	490	15.2
	40+	1	1.4	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	70	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	70	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	1.4	641	19.9
	9-13	51	72.9	1000	31.0
	14-18	17	24.3	867	26.9
	19-23	1	1.4	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	1.4	265	8.2
	3	16	22.9	618	19.2
	4	17	24.3	933	29.0
	5	20	28.6	860	26.7
	6	15	21.4	388	12.0
	Not Reported	1	1.4	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	2	2.9	393	12.2
	1990	19	27.1	517	16.0
	1991	14	20.0	522	16.2
	1992	14	20.0	548	17.0
	1993-1994	21	30.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of California-Davis Medical Center - Sacramento CA  
Provider Number 050599 (CASM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	8	75.0	84.9	25	80.0	84.8	33	33	7	78.8	84.8	-6.0	0.33
1 Year	8	75.0	75.0	25	72.0	75.7	33	33	9	72.7	75.5	-2.8	0.70
Cond. <sup>3</sup> 3 Years	6	100.0	93.7				6	4	0	100.0	93.7	6.3	1.00
3 Years <sup>3</sup>		75.0	70.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	8	87.5	94.9	24	100.0	97.5	32	32.0	1.0	96.9	96.8	0.0	0.99
1 Year	8	87.5	91.2	24	95.6	92.7	32	30.0	2.0	93.5	92.3	1.2	0.81
Cond. <sup>3</sup> 3 Years	7	83.5	92.9				7	6.0	1.0	83.5	92.9	-9.4	0.36
3 Years <sup>3</sup>		73.1	84.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of California-Davis Medical Center - Sacramento CA**  
**Provider Number 050599 (CASM)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>33</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	4	12.1	727	22.6
	18-29	15	45.5	1265	39.3
	30-39	9	27.3	608	18.9
	40-49	5	15.2	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	32	97.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	1	3.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	8	24.2	622	19.3
	30-39	16	48.5	1616	50.2
	40-49	9	27.3	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	31	93.9	2955	91.7
	Black	1	3.0	153	4.7
	Hispanic	1	3.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	12	36.4	1059	32.9
	10-17	15	45.5	1440	44.7
	18-30	5	15.2	611	19.0
	31+	1	3.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	13	39.4	876	27.2
	20-29	17	51.5	1725	53.5
	30-39	3	9.1	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	32	97.0	3096	96.1
	Yes	1	3.0	126	3.9
<b>Transplant Procedure</b>	SKP	30	90.9	2804	87.0
	PAK	2	6.1	204	6.3
	PTA	1	3.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	3	9.1	641	19.9
	9-13	8	24.2	1000	31.0
	14-18	12	36.4	867	26.9
	19-23	8	24.2	509	15.8
	24+	2	6.1	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	1	3.0	74	2.3
	2	2	6.1	265	8.2
	3	10	30.3	618	19.2
	4	9	27.3	933	29.0
	5	9	27.3	860	26.7
	6	2	6.1	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	1	3.0	393	12.2
	1990	4	12.1	517	16.0
	1991	3	9.1	522	16.2
	1992	6	18.2	548	17.0
	1993-1994	19	57.6	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Stanford University Medical Center - Palo Alto CA  
Provider Number 050441 (CASU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	2	50.0	88.7	19	89.5	87.5	21	21	3	85.7	87.7	-1.9	0.79
1 Year	2	50.0	82.5	19	84.2	79.7	21	21	4	81.0	80.0	1.0	0.91
Cond. <sup>3</sup> 3 Years	1	100.0	93.7				1	1	0	100.0	93.7	6.3	1.00
3 Years <sup>3</sup>		50.0	77.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	2	50.0	96.8	19	100.0	97.8	21	20.5	1.0	95.1	97.7	-2.6	0.44
1 Year	2	50.0	92.9	19	88.9	92.5	21	19.5	3.0	85.0	92.5	-7.5	0.20
Cond. <sup>3</sup> 3 Years	1	100.0	95.9				1	1.0	0.0	100.0	95.9	4.1	1.00
3 Years <sup>3</sup>		50.0	89.0										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Stanford University Medical Center - Palo Alto CA**  
**Provider Number 050441 (CASU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>21</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	5	23.8	727	22.6
	18-29	12	57.1	1265	39.3
	30-39	3	14.3	608	18.9
	40-49	1	4.8	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	11	52.4	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	9	42.9	131	4.1
	Asian	1	4.8	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	3	14.3	622	19.3
	30-39	10	47.6	1616	50.2
	40-49	8	38.1	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	11	52.4	2955	91.7
	Black	1	4.8	153	4.7
	Hispanic	5	23.8	63	2.0
	Asian	0	0.0	9	0.3
	Other	4	19.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	2	9.5	1059	32.9
	10-17	15	71.4	1440	44.7
	18-30	3	14.3	611	19.0
	31+	1	4.8	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	7	33.3	876	27.2
	20-29	10	47.6	1725	53.5
	30-39	4	19.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	20	95.2	3096	96.1
	Yes	1	4.8	126	3.9
<b>Transplant Procedure</b>	SKP	21	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	2	9.5	641	19.9
	9-13	9	42.9	1000	31.0
	14-18	8	38.1	867	26.9
	19-23	2	9.5	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	2	9.5	265	8.2
	3	4	19.0	618	19.2
	4	8	38.1	933	29.0
	5	3	14.3	860	26.7
	6	2	9.5	388	12.0
	Not Reported	2	9.5	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	1	4.8	522	16.2
	1992	3	14.3	548	17.0
	1993-1994	17	81.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994****Survival Report for St Vincent Medical Center - Los Angeles CA  
Provider Number 050502 (CASV)****Graft Survival**

	<b>Era 1:</b> 1/1/88-4/30/92			<b>Era 2:</b> 5/1/92-4/30/94			<b>Overall:</b> 1/1/88-4/30/94						
<b>Time Point</b>	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
<b>3 Month</b>				1	0.0	86.6	1	1	1	0.0	86.6	-86.6	0.13
<b>1 Year</b>				1	0.0	79.4	1	1	1	0.0	79.4	-79.4	0.21
<b>Cond. <sup>3</sup> 3 Years</b>													
<b>3 Years <sup>3</sup></b>													

**Patient Survival**

	<b>Era 1:</b> 1/1/88-4/30/92			<b>Era 2:</b> 5/1/92-4/30/94			<b>Overall:</b> 1/1/88-4/30/94						
<b>Time Point</b>	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
<b>3 Month</b>				1	100.0	97.2	1	1.0	0.0	100.0	97.2	2.8	1.00
<b>1 Year</b>				1	100.0	92.7	1	1.0	0.0	100.0	92.7	7.3	1.00
<b>Cond. <sup>3</sup> 3 Years</b>													
<b>3 Years <sup>3</sup></b>													

Notes: <sup>1</sup>. No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup>. A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup>. Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup>. The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup>. No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Vincent Medical Center - Los Angeles CA**  
**Provider Number 050502 (CASV)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	0	0.0	727	22.6
	18-29	1	100.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	0	0.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	1	100.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	1	100.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	1	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	1	100.0	1059	32.9
	10-17	0	0.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	0	0.0	876	27.2
	20-29	1	100.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	1	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	1	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	100.0	641	19.9
	9-13	0	0.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	1	100.0	618	19.2
	4	0	0.0	933	29.0
	5	0	0.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	1	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for UCLA Medical Center - Los Angeles CA  
Provider Number 050262 (CAUC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				5	80.0	88.9	5	5	1	80.0	88.9	-8.9	0.44
1 Year				5	80.0	82.1	5	5	1	80.0	82.1	-2.1	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				5	100.0	97.7	5	5.0	0.0	100.0	97.7	2.3	1.00
1 Year				5	100.0	92.4	5	4.0	0.0	100.0	92.4	7.6	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**UCLA Medical Center - Los Angeles CA**  
**Provider Number 050262 (CAUC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>5</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	2	40.0	727	22.6
	18-29	3	60.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	2	40.0	2790	86.6
	Black	1	20.0	264	8.2
	Hispanic	2	40.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	2	40.0	1616	50.2
	40-49	3	60.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	4	80.0	2955	91.7
	Black	1	20.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	1	20.0	1059	32.9
	10-17	2	40.0	1440	44.7
	18-30	2	40.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	2	40.0	876	27.2
	20-29	1	20.0	1725	53.5
	30-39	2	40.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	5	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	5	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	3	60.0	641	19.9
	9-13	2	40.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	1	20.0	933	29.0
	5	2	40.0	860	26.7
	6	2	40.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	5	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Porter Memorial Hospital - Denver CO  
Provider Number 060064 (COPM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				8	100.0	87.2	8	8	0	100.0	87.2	12.8	0.28
1 Year				8	100.0	80.0	8	8	0	100.0	80.0	20.0	0.15
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				8	100.0	97.8	8	8.0	0.0	100.0	97.8	2.2	0.67
1 Year				8	100.0	93.0	8	8.0	0.0	100.0	93.0	7.0	0.43
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Porter Memorial Hospital - Denver CO**  
**Provider Number 060064 (COPM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>8</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	3	37.5	727	22.6
	18-29	2	25.0	1265	39.3
	30-39	2	25.0	608	18.9
	40-49	1	12.5	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	8	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	25.0	622	19.3
	30-39	4	50.0	1616	50.2
	40-49	2	25.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	8	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	3	37.5	1059	32.9
	10-17	5	62.5	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	2	25.0	876	27.2
	20-29	5	62.5	1725	53.5
	30-39	1	12.5	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	8	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	8	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	3	37.5	641	19.9
	9-13	5	62.5	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	1	12.5	35	1.1
	1	0	0.0	74	2.3
	2	1	12.5	265	8.2
	3	2	25.0	618	19.2
	4	1	12.5	933	29.0
	5	0	0.0	860	26.7
	6	3	37.5	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	8	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: Porter Memorial Hospital  
2535 S. Downing Street, Denver, CO 80210  
Provider Number 060064 (COPM)**

May 8, 1997

The pancreas transplant program at Porter Memorial Hospital was initiated in 1992, and the first combined kidney and pancreas transplant was performed 3 January 1993. This report summarizes data for the first 8 combined pancreas and kidney transplants performed at this center.

As the premier community-based transplant program in the Rocky Mountain region, the mission of the PorterCare Transplant Service is to provide excellent care, support and education to donors, recipients and their families throughout the transplant continuum. We are pleased that this UNOS analysis of our center's performance in the years 1992 through 1994 confirms the excellent graft and patient survivals obtained here. Review of the donor and recipient characteristics confirms our center's commitment to shorter cold ischemic times and better HLA matching.

From 1993 through April, 1997, the PorterCare Transplant Service has performed 20 simultaneous kidney and pancreas transplants. Overall patient and graft survival rates remain excellent. The PorterCare transplant program is pleased to provide these very successful services to patients, their nephrologists, and their families in the Denver metropolitan area as well as from Pueblo to Billings and Grand Junction to Rapid City. For further information, please contact our program.

W. Ben Vernon, MD  
Medical Director





## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Columbia Presbyterian/St Luke's Medical Center - Denver CO  
Provider Number 060014 (COSL)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	9	55.6	83.5	5	80.0	86.2	14	14	5	64.3	84.4	-20.1	0.04*
1 Year	9	33.3	74.4	5	80.0	79.0	14	14	7	50.0	76.0	-26.0	0.02*
Cond. <sup>3</sup> 3 Years	3	66.7	93.7				3	3	1	66.7	93.7	-27.1	0.18
3 Years <sup>3</sup>		22.2	69.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	9	88.9	94.6	5	100.0	97.2	14	14.0	1.0	92.9	95.5	-2.7	0.63
1 Year	9	77.8	89.4	5	100.0	92.3	14	14.0	2.0	85.7	90.5	-4.7	0.54
Cond. <sup>3</sup> 3 Years	7	85.7	93.2				7	7.0	1.0	85.7	93.2	-7.5	0.43
3 Years <sup>3</sup>		66.7	83.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Columbia Presbyterian/St Luke's Medical Center - Denver CO**  
**Provider Number 060014 (COSL)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>14</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	3	21.4	727	22.6
	18-29	4	28.6	1265	39.3
	30-39	3	21.4	608	18.9
	40-49	4	28.6	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	14	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	3	21.4	622	19.3
	30-39	6	42.9	1616	50.2
	40-49	5	35.7	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	13	92.9	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	1	7.1	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	5	35.7	1059	32.9
	10-17	6	42.9	1440	44.7
	18-30	3	21.4	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	3	21.4	876	27.2
	20-29	11	78.6	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	14	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	14	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	2	14.3	641	19.9
	9-13	8	57.1	1000	31.0
	14-18	3	21.4	867	26.9
	19-23	1	7.1	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	2	14.3	74	2.3
	2	6	42.9	265	8.2
	3	1	7.1	618	19.2
	4	3	21.4	933	29.0
	5	2	14.3	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	7	50.0	393	12.2
	1990	2	14.3	517	16.0
	1991	0	0.0	522	16.2
	1992	2	14.3	548	17.0
	1993-1994	3	21.4	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University Hospital - Denver CO  
Provider Number 060024 (COUC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	4	100.0	81.0	4	100.0	88.6	8	8	0	100.0	84.8	15.2	0.23
1 Year	4	100.0	68.5	4	100.0	81.5	8	8	0	100.0	75.0	25.0	0.10
Cond. <sup>3</sup> 3 Years	4	75.0	93.7				4	4	1	75.0	93.7	-18.7	0.23
3 Years <sup>3</sup>		75.0	64.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	4	100.0	94.3	4	100.0	98.0	8	8.0	0.0	100.0	96.2	3.8	0.57
1 Year	4	100.0	87.6	4	100.0	92.2	8	8.0	0.0	100.0	89.9	10.1	0.34
Cond. <sup>3</sup> 3 Years	4	100.0	93.4				4	4.0	0.0	100.0	93.4	6.6	1.00
3 Years <sup>3</sup>		100.0	81.8										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University Hospital - Denver CO**  
**Provider Number 060024 (COUC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>8</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	3	37.5	727	22.6
	18-29	2	25.0	1265	39.3
	30-39	3	37.5	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	7	87.5	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	1	12.5	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	5	62.5	1616	50.2
	40-49	3	37.5	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	7	87.5	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	1	12.5	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	2	25.0	1059	32.9
	10-17	2	25.0	1440	44.7
	18-30	2	25.0	611	19.0
	31+	1	12.5	59	1.8
	Not Reported	1	12.5	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	12.5	36	1.1
	10-19	1	12.5	876	27.2
	20-29	4	50.0	1725	53.5
	30-39	1	12.5	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	1	12.5	53	1.6
<b>Previous Pancreas Transplant</b>	No	8	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	8	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	2	25.0	641	19.9
	9-13	4	50.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	2	25.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	2	25.0	618	19.2
	4	5	62.5	933	29.0
	5	1	12.5	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	4	50.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	4	50.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Hartford Hospital - Hartford CT  
Provider Number 070025 (CTHH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	4	100.0	84.4	7	85.7	87.4	11	11	1	90.9	86.3	4.6	0.65
1 Year	4	75.0	75.2	7	71.4	80.3	11	11	3	72.7	78.5	-5.7	0.64
Cond. <sup>3</sup> 3 Years	3	100.0	93.7				3	3	0	100.0	93.7	6.3	1.00
3 Years <sup>3</sup>		75.0	70.5										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	4	100.0	95.3	7	85.7	97.3	11	11.0	1.0	90.9	96.6	-5.7	0.30
1 Year	4	100.0	90.8	7	84.6	92.0	11	10.0	1.0	90.5	91.6	-1.1	0.90
Cond. <sup>3</sup> 3 Years	4	100.0	91.6				4	3.0	0.0	100.0	91.6	8.4	1.00
3 Years <sup>3</sup>		100.0	83.2										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Hartford Hospital - Hartford CT**  
**Provider Number 070025 (CTHH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>11</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	2	18.2	727	22.6
	18-29	5	45.5	1265	39.3
	30-39	2	18.2	608	18.9
	40-49	1	9.1	450	14.0
	50+	1	9.1	172	5.3
<b>Donor Race</b>	White	10	90.9	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	1	9.1	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	4	36.4	622	19.3
	30-39	2	18.2	1616	50.2
	40-49	5	45.5	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	11	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	4	36.4	1059	32.9
	10-17	7	63.6	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	9.1	876	27.2
	20-29	8	72.7	1725	53.5
	30-39	2	18.2	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	11	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	11	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	3	27.3	641	19.9
	9-13	3	27.3	1000	31.0
	14-18	4	36.4	867	26.9
	19-23	1	9.1	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	2	18.2	265	8.2
	3	0	0.0	618	19.2
	4	4	36.4	933	29.0
	5	5	45.5	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	1	9.1	517	16.0
	1991	3	27.3	522	16.2
	1992	3	27.3	548	17.0
	1993-1994	4	36.4	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Yale New Haven Hospital - New Haven CT  
Provider Number 070022 (CTYN)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	12	75.0	82.3	1	0.0	89.2	13	13	4	69.2	82.8	-13.6	0.19
1 Year	12	66.7	65.8	1	0.0	84.5	13	13	5	61.5	67.3	-5.7	0.65
Cond. <sup>3</sup> 3 Years	8	59.4	78.9				8	7	3	59.4	78.9	-19.5	0.17
3 Years <sup>3</sup>		39.6	51.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	12	100.0	94.5	1	100.0	96.3	13	13.0	0.0	100.0	94.7	5.3	0.39
1 Year	12	91.7	89.1	1	0.0	92.0	13	13.0	2.0	84.6	89.3	-4.7	0.58
Cond. <sup>3</sup> 3 Years	11	80.6	90.6				11	9.0	2.0	80.6	90.6	-10.1	0.26
3 Years <sup>3</sup>		73.8	80.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Yale New Haven Hospital - New Haven CT**  
**Provider Number 070022 (CTYN)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>13</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	5	38.5	727	22.6
	18-29	6	46.2	1265	39.3
	30-39	1	7.7	608	18.9
	40-49	1	7.7	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	12	92.3	2790	86.6
	Black	1	7.7	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	7.7	622	19.3
	30-39	8	61.5	1616	50.2
	40-49	3	23.1	873	27.1
	50+	1	7.7	107	3.3
<b>Recipient Race</b>	White	13	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	4	30.8	1059	32.9
	10-17	7	53.8	1440	44.7
	18-30	1	7.7	611	19.0
	31+	1	7.7	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	7.7	876	27.2
	20-29	10	76.9	1725	53.5
	30-39	2	15.4	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	13	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	7	53.8	2804	87.0
	PAK	2	15.4	204	6.3
	PTA	4	30.8	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	11	84.6	641	19.9
	9-13	2	15.4	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	7.7	265	8.2
	3	1	7.7	618	19.2
	4	4	30.8	933	29.0
	5	3	23.1	860	26.7
	6	4	30.8	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	3	23.1	393	12.2
	1990	5	38.5	517	16.0
	1991	4	30.8	522	16.2
	1992	1	7.7	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Georgetown University Medical Center - Washington DC  
Provider Number 090004 (DCGU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	14	78.6	82.3	10	80.0	85.2	24	24	5	79.2	83.5	-4.3	0.56
1 Year	14	71.4	71.9	10	60.0	77.0	24	24	8	66.7	74.0	-7.4	0.40
Cond. <sup>3</sup> 3 Years	10	100.0	93.7				10	7	0	100.0	93.7	6.3	0.46
3 Years <sup>3</sup>		71.4	67.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	14	92.9	94.0	10	100.0	97.8	24	24.0	1.0	95.8	95.6	0.3	0.95
1 Year	14	92.9	88.8	10	79.0	92.1	24	23.0	3.0	87.2	90.2	-2.9	0.63
Cond. <sup>3</sup> 3 Years	13	76.9	90.0				13	13.0	3.0	76.9	90.0	-13.1	0.11
3 Years <sup>3</sup>		71.4	79.9										

Notes: <sup>1</sup>. No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup>. A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup>. Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup>. The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup>. No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Georgetown University Medical Center - Washington DC**  
**Provider Number 090004 (DCGU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>24</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	4.2	727	22.6
	18-29	10	41.7	1265	39.3
	30-39	6	25.0	608	18.9
	40-49	4	16.7	450	14.0
	50+	3	12.5	172	5.3
<b>Donor Race</b>	White	16	66.7	2790	86.6
	Black	8	33.3	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	8.3	622	19.3
	30-39	13	54.2	1616	50.2
	40-49	7	29.2	873	27.1
	50+	2	8.3	107	3.3
<b>Recipient Race</b>	White	21	87.5	2955	91.7
	Black	3	12.5	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	9	37.5	1059	32.9
	10-17	12	50.0	1440	44.7
	18-30	3	12.5	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	4.2	36	1.1
	10-19	1	4.2	876	27.2
	20-29	12	50.0	1725	53.5
	30-39	8	33.3	490	15.2
	40+	2	8.3	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	24	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	24	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	8	33.3	1000	31.0
	14-18	13	54.2	867	26.9
	19-23	3	12.5	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	1	4.2	35	1.1
	1	0	0.0	74	2.3
	2	1	4.2	265	8.2
	3	4	16.7	618	19.2
	4	8	33.3	933	29.0
	5	6	25.0	860	26.7
	6	3	12.5	388	12.0
	Not Reported	1	4.2	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	3	12.5	393	12.2
	1990	6	25.0	517	16.0
	1991	3	12.5	522	16.2
	1992	4	16.7	548	17.0
	1993-1994	8	33.3	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994****Survival Report for George Washington University Medical Center - Washington DC  
Provider Number 090001 (DCGW)****Graft Survival**

	<b>Era 1:</b> 1/1/88-4/30/92			<b>Era 2:</b> 5/1/92-4/30/94			<b>Overall:</b> 1/1/88-4/30/94						
<b>Time Point</b>	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
<b>3 Month</b>	2	50.0	85.4				2	2	1	50.0	85.4	-35.4	0.27
<b>1 Year</b>	2	50.0	74.2				2	2	1	50.0	74.2	-24.2	0.45
<b>Cond. <sup>3</sup> 3 Years</b>	1	100.0	93.7				1	1	0	100.0	93.7	6.3	1.00
<b>3 Years <sup>3</sup></b>		50.0	69.5										

**Patient Survival**

	<b>Era 1:</b> 1/1/88-4/30/92			<b>Era 2:</b> 5/1/92-4/30/94			<b>Overall:</b> 1/1/88-4/30/94						
<b>Time Point</b>	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
<b>3 Month</b>	2	100.0	93.6				2	2.0	0.0	100.0	93.6	6.4	1.00
<b>1 Year</b>	2	100.0	90.6				2	2.0	0.0	100.0	90.6	9.4	1.00
<b>Cond. <sup>3</sup> 3 Years</b>	2	100.0	92.6				2	2.0	0.0	100.0	92.6	7.4	1.00
<b>3 Years <sup>3</sup></b>		100.0	83.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**George Washington University Medical Center - Washington DC**  
**Provider Number 090001 (DCGW)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>2</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	50.0	727	22.6
	18-29	1	50.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	2	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	50.0	622	19.3
	30-39	1	50.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	1	50.0	2955	91.7
	Black	1	50.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	0	0.0	1059	32.9
	10-17	2	100.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	50.0	876	27.2
	20-29	1	50.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	2	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	2	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	50.0	641	19.9
	9-13	1	50.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	0	0.0	933	29.0
	5	1	50.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	1	50.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	2	100.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Washington Hospital Center - Washington DC  
Provider Number 090011 (DCWH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	39	89.7	85.4	33	97.0	87.1	72	71	5	93.0	86.2	6.8	0.09
1 Year	39	82.1	76.3	33	93.8	80.3	72	71	9	87.4	78.1	9.3	0.05
Cond. <sup>3</sup> 3 Years	32	93.7	93.7				32	30	2	93.7	93.7	-0.0	0.99
3 Years <sup>3</sup>		76.9	71.5										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	39	97.4	94.9	33	97.0	97.2	72	71.0	2.0	97.2	95.9	1.3	0.58
1 Year	39	89.5	90.7	33	93.8	92.5	72	70.0	6.0	91.5	91.6	-0.1	0.98
Cond. <sup>3</sup> 3 Years	34	94.0	91.7				34	32.0	2.0	94.0	91.7	2.3	0.62
3 Years <sup>3</sup>		84.1	83.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Washington Hospital Center - Washington DC**  
**Provider Number 090011 (DCWH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>72</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	18	25.0	727	22.6
	18-29	34	47.2	1265	39.3
	30-39	13	18.1	608	18.9
	40-49	5	6.9	450	14.0
	50+	2	2.8	172	5.3
<b>Donor Race</b>	White	46	63.9	2790	86.6
	Black	22	30.6	264	8.2
	Hispanic	3	4.2	131	4.1
	Asian	1	1.4	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	10	13.9	622	19.3
	30-39	40	55.6	1616	50.2
	40-49	17	23.6	873	27.1
	50+	5	6.9	107	3.3
<b>Recipient Race</b>	White	49	68.1	2955	91.7
	Black	20	27.8	153	4.7
	Hispanic	2	2.8	63	2.0
	Asian	1	1.4	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	16	22.2	1059	32.9
	10-17	34	47.2	1440	44.7
	18-30	21	29.2	611	19.0
	31+	1	1.4	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	2	2.8	36	1.1
	10-19	22	30.6	876	27.2
	20-29	39	54.2	1725	53.5
	30-39	8	11.1	490	15.2
	40+	1	1.4	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	72	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	72	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	1.4	641	19.9
	9-13	28	38.9	1000	31.0
	14-18	27	37.5	867	26.9
	19-23	8	11.1	509	15.8
	24+	7	9.7	164	5.1
	Not Reported	1	1.4	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	1.4	265	8.2
	3	5	6.9	618	19.2
	4	20	27.8	933	29.0
	5	29	40.3	860	26.7
	6	17	23.6	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	2	2.8	393	12.2
	1990	14	19.4	517	16.0
	1991	14	19.4	522	16.2
	1992	21	29.2	548	17.0
	1993-1994	21	29.2	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Walter Reed Army Medical Center - Washington DC  
Provider Number 09003F (DCWR)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				4	75.0	87.1	4	4	1	75.0	87.1	-12.1	0.42
1 Year				4	50.0	79.8	4	4	2	50.0	79.8	-29.8	0.18
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				4	100.0	97.6	4	4.0	0.0	100.0	97.6	2.4	1.00
1 Year				4	100.0	92.1	4	2.0	0.0	100.0	92.1	7.9	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Walter Reed Army Medical Center - Washington DC**  
**Provider Number 09003F (DCWR)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>4</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	0	0.0	727	22.6
	18-29	3	75.0	1265	39.3
	30-39	1	25.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	2	50.0	2790	86.6
	Black	2	50.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	25.0	622	19.3
	30-39	1	25.0	1616	50.2
	40-49	2	50.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	4	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	0	0.0	1059	32.9
	10-17	2	50.0	1440	44.7
	18-30	2	50.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	2	50.0	876	27.2
	20-29	2	50.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	4	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	4	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	2	50.0	1000	31.0
	14-18	1	25.0	867	26.9
	19-23	1	25.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	0	0.0	933	29.0
	5	3	75.0	860	26.7
	6	1	25.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	1	25.0	548	17.0
	1993-1994	3	75.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Jackson Memorial Hospital - Miami FL  
Provider Number 100022 (FLJM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	6	100.0	84.6	15	86.7	86.6	21	21	2	90.5	86.0	4.5	0.55
1 Year	6	83.3	76.2	15	86.7	79.4	21	21	3	85.7	78.5	7.2	0.42
Cond. <sup>3</sup> 3 Years	5	100.0	93.7				5	5	0	100.0	93.7	6.3	1.00
3 Years <sup>3</sup>		83.3	71.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	6	100.0	94.9	15	100.0	96.9	21	21.0	0.0	100.0	96.4	3.6	0.37
1 Year	6	100.0	91.0	15	100.0	91.2	21	21.0	0.0	100.0	91.1	8.9	0.15
Cond. <sup>3</sup> 3 Years	6	100.0	92.1				6	6.0	0.0	100.0	92.1	7.9	0.47
3 Years <sup>3</sup>		100.0	83.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Jackson Memorial Hospital - Miami FL**  
**Provider Number 100022 (FLJM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>21</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	3	14.3	727	22.6
	18-29	9	42.9	1265	39.3
	30-39	5	23.8	608	18.9
	40-49	4	19.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	13	61.9	2790	86.6
	Black	3	14.3	264	8.2
	Hispanic	5	23.8	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	4.8	622	19.3
	30-39	13	61.9	1616	50.2
	40-49	7	33.3	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	14	66.7	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	7	33.3	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	8	38.1	1059	32.9
	10-17	4	19.0	1440	44.7
	18-30	8	38.1	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	1	4.8	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	2	9.5	876	27.2
	20-29	14	66.7	1725	53.5
	30-39	4	19.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	1	4.8	53	1.6
<b>Previous Pancreas Transplant</b>	No	21	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	21	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	13	61.9	641	19.9
	9-13	6	28.6	1000	31.0
	14-18	1	4.8	867	26.9
	19-23	1	4.8	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	3	14.3	74	2.3
	2	5	23.8	265	8.2
	3	2	9.5	618	19.2
	4	5	23.8	933	29.0
	5	6	28.6	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	1	4.8	517	16.0
	1991	4	19.0	522	16.2
	1992	4	19.0	548	17.0
	1993-1994	12	57.1	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Emory University Hospital - Atlanta GA  
Provider Number 110010 (GAEM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	20	85.0	85.4	26	88.2	87.2	46	45	6	86.8	86.4	0.4	0.93
1 Year	20	70.0	76.8	26	84.1	79.8	46	45	10	77.8	78.5	-0.6	0.91
Cond. <sup>3</sup> 3 Years	14	100.0	93.7				14	14	0	100.0	93.7	6.3	0.33
3 Years <sup>3</sup>		70.0	72.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	20	100.0	94.9	26	96.1	97.1	46	45.0	1.0	97.8	96.1	1.7	0.55
1 Year	20	94.8	91.0	26	91.9	92.5	46	43.0	3.0	93.2	91.8	1.4	0.73
Cond. <sup>3</sup> 3 Years	18	100.0	92.8				18	16.0	0.0	100.0	92.8	7.2	0.24
3 Years <sup>3</sup>		94.8	84.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Emory University Hospital - Atlanta GA**  
**Provider Number 110010 (GAEM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>46</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	7	15.2	727	22.6
	18-29	28	60.9	1265	39.3
	30-39	7	15.2	608	18.9
	40-49	4	8.7	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	37	80.4	2790	86.6
	Black	9	19.6	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	11	23.9	622	19.3
	30-39	24	52.2	1616	50.2
	40-49	11	23.9	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	39	84.8	2955	91.7
	Black	7	15.2	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	14	30.4	1059	32.9
	10-17	18	39.1	1440	44.7
	18-30	11	23.9	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	3	6.5	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	17	37.0	876	27.2
	20-29	21	45.7	1725	53.5
	30-39	5	10.9	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	3	6.5	53	1.6
<b>Previous Pancreas Transplant</b>	No	46	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	46	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	10	21.7	641	19.9
	9-13	27	58.7	1000	31.0
	14-18	7	15.2	867	26.9
	19-23	1	2.2	509	15.8
	24+	1	2.2	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	2	4.3	74	2.3
	2	4	8.7	265	8.2
	3	8	17.4	618	19.2
	4	14	30.4	933	29.0
	5	12	26.1	860	26.7
	6	4	8.7	388	12.0
	Not Reported	2	4.3	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	5	10.9	393	12.2
	1990	7	15.2	517	16.0
	1991	6	13.0	522	16.2
	1992	6	13.0	548	17.0
	1993-1994	22	47.8	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Medical College of Georgia Hospital - Augusta GA  
Provider Number 110034 (GAMC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				2	50.0	87.4	2	2	1	50.0	87.4	-37.4	0.24
1 Year				2	50.0	80.5	2	2	1	50.0	80.5	-30.5	0.35
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				2	100.0	98.2	2	2.0	0.0	100.0	98.2	1.8	1.00
1 Year				2	100.0	93.5	2	1.0	0.0	100.0	93.5	6.5	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Medical College of Georgia Hospital - Augusta GA**  
**Provider Number 110034 (GAMC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>2</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	50.0	727	22.6
	18-29	0	0.0	1265	39.3
	30-39	1	50.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	2	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	2	100.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	2	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	0	0.0	1059	32.9
	10-17	1	50.0	1440	44.7
	18-30	1	50.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	2	100.0	876	27.2
	20-29	0	0.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	2	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	2	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	0	0.0	1000	31.0
	14-18	2	100.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	1	50.0	933	29.0
	5	1	50.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	2	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Francis Medical Center - Honolulu HI  
Provider Number 120010 (HISF)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				2	100.0	89.0	2	2	0	100.0	89.0	11.0	1.00
1 Year				2	100.0	82.4	2	2	0	100.0	82.4	17.6	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				2	100.0	98.5	2	2.0	0.0	100.0	98.5	1.5	1.00
1 Year				2	100.0	94.1	2	2.0	0.0	100.0	94.1	5.9	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Francis Medical Center - Honolulu HI**  
**Provider Number 120010 (HISF)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>2</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	50.0	727	22.6
	18-29	1	50.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	2	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	2	100.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	1	50.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	1	50.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	2	100.0	1059	32.9
	10-17	0	0.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	0	0.0	876	27.2
	20-29	1	50.0	1725	53.5
	30-39	1	50.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	2	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	2	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	1	50.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	1	50.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	1	50.0	933	29.0
	5	0	0.0	860	26.7
	6	1	50.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	2	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Iowa Hospitals & Clinics - Iowa City IA  
Provider Number 160058 (IAIV)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	68	76.5	82.3	27	70.4	85.9	95	95	24	74.7	83.3	-8.6	0.02*
1 Year	68	66.2	71.8	27	63.0	77.6	95	95	33	65.3	73.4	-8.2	0.06
Cond. <sup>3</sup> 3 Years	45	93.2	90.3				45	43	3	93.2	90.3	2.9	0.49
3 Years <sup>3</sup>		61.7	64.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	67	91.0	95.2	27	92.5	97.6	94	92.5	8.0	91.4	95.9	-4.5	0.02*
1 Year	67	86.5	90.3	27	92.2	92.1	94	91.5	11.0	88.1	90.8	-2.7	0.35
Cond. <sup>3</sup> 3 Years	58	94.7	92.4				58	55.0	3.0	94.7	92.4	2.3	0.49
3 Years <sup>3</sup>		81.9	83.4										

Notes: <sup>1</sup> No. with complete follow-up.(CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Iowa Hospitals & Clinics - Iowa City IA**  
**Provider Number 160058 (IAIV)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>95</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	28	29.5	727	22.6
	18-29	30	31.6	1265	39.3
	30-39	15	15.8	608	18.9
	40-49	14	14.7	450	14.0
	50+	8	8.4	172	5.3
<b>Donor Race</b>	White	86	90.5	2790	86.6
	Black	4	4.2	264	8.2
	Hispanic	5	5.3	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	1	1.1	4	0.1
	18-29	13	13.7	622	19.3
	30-39	50	52.6	1616	50.2
	40-49	29	30.5	873	27.1
	50+	2	2.1	107	3.3
<b>Recipient Race</b>	White	94	98.9	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	1	1.1	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	40	42.1	1059	32.9
	10-17	39	41.1	1440	44.7
	18-30	14	14.7	611	19.0
	31+	2	2.1	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	20	21.1	876	27.2
	20-29	55	57.9	1725	53.5
	30-39	17	17.9	490	15.2
	40+	3	3.2	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	91	95.8	3096	96.1
	Yes	4	4.2	126	3.9
<b>Transplant Procedure</b>	SKP	83	87.4	2804	87.0
	PAK	7	7.4	204	6.3
	PTA	5	5.3	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	28	29.5	641	19.9
	9-13	34	35.8	1000	31.0
	14-18	25	26.3	867	26.9
	19-23	5	5.3	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	3	3.2	41	1.3
<b>Level of Mismatch</b>	0	2	2.1	35	1.1
	1	0	0.0	74	2.3
	2	6	6.3	265	8.2
	3	27	28.4	618	19.2
	4	23	24.2	933	29.0
	5	33	34.7	860	26.7
	6	4	4.2	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	10	10.5	232	7.2
	1989	12	12.6	393	12.2
	1990	16	16.8	517	16.0
	1991	23	24.2	522	16.2
	1992	13	13.7	548	17.0
	1993-1994	21	22.1	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: The University of Iowa Hospitals and Clinics  
200 Hawkins Drive, Iowa City, IA 52242  
Provider Number 160058 (IAIV)**

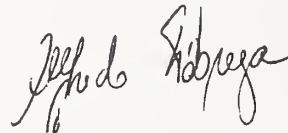
April 25, 1997

The University of Iowa Hospitals and Clinics Pancreas Transplant program was initiated in April, 1979. One hundred ninety pancreas transplants have been performed since the initiation of the program. From January 1, 1988 to April 30, 1994, 94 pancreas transplants were performed at our institution with an overall 1 year patient survival of 91.5% and graft survival of 65.3%. The survival report is not an accurate reflection of the commitment to care and standards of excellence currently found at the University of Iowa Hospitals and Clinics. The results listed in the center specific data report are a reflection of peri-operative complications associated with the extra-peritoneal placement of the pancreas allograft and also the significant number of high risk pancreas after kidney and pancreas transplant alone procedures performed at our center.

The period from January 1, 1992 to April 30, 1994 was a time of transition for the surgical component of our program, and our results were not outstanding. Our more recent results, with the current surgical team, reflect our excellent results with patient and graft survival. Since January 1, 1995, the current team has performed 23 pancreas transplants with a 1 year and 2 year patient survival rates of 95.6% and 95.6% respectively. The 1 year and 2 year graft survival rates are 91.3 and 91.3% respectively.

The University of Iowa Hospitals and Clinics has met stringent criteria in order to become a member of UNOS in addition to becoming a "center of excellence" on numerous managed care contract panels. We are proud of our longstanding excellence in solid organ transplantation and will continue to provide the finest care for patients with Type I diabetes who are referred for transplant services from the state of Iowa and surrounding and distant states.

Alfred Jose Fabrega, M.D.  
Pancreas Transplant Program Director

A handwritten signature in black ink, appearing to read 'Alfred Jose Fabrega', written in a cursive style.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Northwestern Memorial Hospital - Chicago IL  
Provider Number 140281 (ILNM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				15	86.7	85.4	15	15	2	86.7	85.4	1.2	0.89
1 Year				15	86.7	77.8	15	15	2	86.7	77.8	8.9	0.40
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				15	100.0	98.0	15	14.0	0.0	100.0	98.0	2.0	0.59
1 Year				15	100.0	93.2	15	14.0	0.0	100.0	93.2	6.8	0.31
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Northwestern Memorial Hospital - Chicago IL**  
**Provider Number 140281 (ILNM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>15</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	4	26.7	727	22.6
	18-29	5	33.3	1265	39.3
	30-39	2	13.3	608	18.9
	40-49	2	13.3	450	14.0
	50+	2	13.3	172	5.3
<b>Donor Race</b>	White	10	66.7	2790	86.6
	Black	5	33.3	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	6.7	622	19.3
	30-39	14	93.3	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	15	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	5	33.3	1059	32.9
	10-17	9	60.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	1	6.7	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	3	20.0	876	27.2
	20-29	9	60.0	1725	53.5
	30-39	2	13.3	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	1	6.7	53	1.6
<b>Previous Pancreas Transplant</b>	No	15	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	14	93.3	2804	87.0
	PAK	1	6.7	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	6.7	641	19.9
	9-13	8	53.3	1000	31.0
	14-18	6	40.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	6	40.0	618	19.2
	4	2	13.3	933	29.0
	5	4	26.7	860	26.7
	6	3	20.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	15	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Rush-Presbyterian-St Luke's Medical Center - Chicago IL  
Provider Number 140119 (ILPL)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	88.6	1	1	0	100.0	88.6	11.4	1.00
1 Year				1	100.0	79.9	1	1	0	100.0	79.9	20.1	1.00
Cond. <sup>3</sup>													
3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	97.5	1	1.0	0.0	100.0	97.5	2.5	1.00
1 Year				1	100.0	89.5	1	1.0	0.0	100.0	89.5	10.5	1.00
Cond. <sup>3</sup>													
3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Rush-Presbyterian-St Luke's Medical Center - Chicago IL**  
**Provider Number 140119 (ILPL)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	0	0.0	727	22.6
	18-29	1	100.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	0	0.0	2790	86.6
	Black	1	100.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	0	0.0	1616	50.2
	40-49	1	100.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	1	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	0	0.0	1059	32.9
	10-17	0	0.0	1440	44.7
	18-30	1	100.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	100.0	876	27.2
	20-29	0	0.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	1	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	1	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	100.0	641	19.9
	9-13	0	0.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	0	0.0	933	29.0
	5	0	0.0	860	26.7
	6	1	100.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	1	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: Rush-Presbyterian-St. Luke's Medical Center  
1653 West Congress Parkway, Chicago, IL 60612  
Provider Number 140119 (ILPL)**

May 8, 1997

The Pancreas Transplant Program at Rush University/Rush-Presbyterian-St. Luke's Medical Center (RPSLMC) performed its first pancreas transplant in 1994. The program was instituted following the long term establishment of the successful Liver and Renal Transplant programs, thus completing the visceral transplants available at the institution. The program follows critical care pathways - guidelines designed to ensure that all patients receive the most effective medical and surgical care, delivered in the most cost-effective way possible. Excellent success rates have been maintained to date with further expansion of immunosuppressive protocols. These success rates are indicative of the program's expectations.

Lawrence P. McChesney, M.D., F.A.C.S.  
Director, Pancreas Transplant Program





## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Chicago Medical Center - Chicago IL  
Provider Number 140088 (ILUC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	65	86.2	82.7	10	90.0	87.7	75	75	10	86.7	83.4	3.3	0.43
1 Year	65	78.5	72.4	10	80.0	79.9	75	75	16	78.7	73.4	5.3	0.28
Cond. <sup>3</sup> 3 Years	51	92.0	92.2				51	47	4	92.0	92.2	-0.2	0.95
3 Years <sup>3</sup>		72.2	66.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	64	96.9	94.3	10	100.0	97.8	74	73.5	2.0	97.3	94.8	2.5	0.32
1 Year	64	90.6	89.9	10	90.0	92.0	74	73.5	7.0	90.5	90.2	0.3	0.93
Cond. <sup>3</sup> 3 Years	58	93.1	91.6				58	57.0	4.0	93.1	91.6	1.4	0.67
3 Years <sup>3</sup>		84.3	82.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Chicago Medical Center - Chicago IL**  
**Provider Number 140088 (ILUC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>75</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	20	26.7	727	22.6
	18-29	34	45.3	1265	39.3
	30-39	9	12.0	608	18.9
	40-49	11	14.7	450	14.0
	50+	1	1.3	172	5.3
<b>Donor Race</b>	White	57	76.0	2790	86.6
	Black	14	18.7	264	8.2
	Hispanic	3	4.0	131	4.1
	Asian	1	1.3	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	20	26.7	622	19.3
	30-39	35	46.7	1616	50.2
	40-49	15	20.0	873	27.1
	50+	5	6.7	107	3.3
<b>Recipient Race</b>	White	68	90.7	2955	91.7
	Black	6	8.0	153	4.7
	Hispanic	1	1.3	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	28	37.3	1059	32.9
	10-17	27	36.0	1440	44.7
	18-30	14	18.7	611	19.0
	31+	3	4.0	59	1.8
	Not Reported	3	4.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	19	25.3	876	27.2
	20-29	46	61.3	1725	53.5
	30-39	7	9.3	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	3	4.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	73	97.3	3096	96.1
	Yes	2	2.7	126	3.9
<b>Transplant Procedure</b>	SKP	68	90.7	2804	87.0
	PAK	2	2.7	204	6.3
	PTA	5	6.7	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	32	42.7	641	19.9
	9-13	38	50.7	1000	31.0
	14-18	4	5.3	867	26.9
	19-23	0	0.0	509	15.8
	24+	1	1.3	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	2	2.7	35	1.1
	1	0	0.0	74	2.3
	2	3	4.0	265	8.2
	3	15	20.0	618	19.2
	4	17	22.7	933	29.0
	5	27	36.0	860	26.7
	6	7	9.3	388	12.0
	Not Reported	4	5.3	49	1.5
<b>Year of Transplant</b>	1988	13	17.3	232	7.2
	1989	12	16.0	393	12.2
	1990	20	26.7	517	16.0
	1991	16	21.3	522	16.2
	1992	4	5.3	548	17.0
	1993-1994	10	13.3	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Illinois Hospital - Chicago IL  
Provider Number 140150 (ILUI)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	6	66.7	87.3	5	100.0	85.3	11	11	2	81.8	86.4	-4.6	0.66
1 Year	6	66.7	80.2	5	37.7	77.3	11	10	5	53.8	78.9	-25.1	0.04*
Cond. <sup>3</sup> 3 Years	4	100.0	93.7				4	4	0	100.0	93.7	6.3	1.00
3 Years <sup>3</sup>		66.7	75.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	6	66.7	95.6	5	100.0	97.4	11	11.0	2.0	81.8	96.4	-14.6	<0.01*
1 Year	6	66.7	93.4	5	58.4	93.5	11	10.0	4.0	63.0	93.5	-30.5	<0.01*
Cond. <sup>3</sup> 3 Years	4	100.0	92.9				4	4.0	0.0	100.0	92.9	7.1	1.00
3 Years <sup>3</sup>		66.7	86.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Illinois Hospital - Chicago IL**  
**Provider Number 140150 (ILUI)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>11</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	4	36.4	727	22.6
	18-29	3	27.3	1265	39.3
	30-39	1	9.1	608	18.9
	40-49	3	27.3	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	9	81.8	2790	86.6
	Black	2	18.2	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	18.2	622	19.3
	30-39	7	63.6	1616	50.2
	40-49	2	18.2	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	6	54.5	2955	91.7
	Black	4	36.4	153	4.7
	Hispanic	1	9.1	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	6	54.5	1059	32.9
	10-17	3	27.3	1440	44.7
	18-30	1	9.1	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	1	9.1	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	9.1	876	27.2
	20-29	7	63.6	1725	53.5
	30-39	2	18.2	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	1	9.1	53	1.6
<b>Previous Pancreas Transplant</b>	No	11	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	10	90.9	2804	87.0
	PAK	1	9.1	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	6	54.5	1000	31.0
	14-18	3	27.3	867	26.9
	19-23	2	18.2	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	1	9.1	74	2.3
	2	1	9.1	265	8.2
	3	2	18.2	618	19.2
	4	2	18.2	933	29.0
	5	3	27.3	860	26.7
	6	2	18.2	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	6	54.5	522	16.2
	1992	1	9.1	548	17.0
	1993-1994	4	36.4	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Methodist Hospital of Indiana - Indianapolis IN  
Provider Number 150056 (INIM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	11	81.8	86.2	1	100.0	88.2	12	12	2	83.3	86.4	-3.1	0.76
1 Year	11	72.7	77.9	1	100.0	80.9	12	12	3	75.0	78.2	-3.2	0.79
Cond. <sup>3</sup> 3 Years	8	87.5	93.7				8	8	1	87.5	93.7	-6.2	0.47
3 Years <sup>3</sup>		63.6	73.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	11	100.0	95.2	1	100.0	98.1	12	12.0	0.0	100.0	95.5	4.5	0.45
1 Year	11	100.0	91.7	1	100.0	92.1	12	12.0	0.0	100.0	91.7	8.3	0.29
Cond. <sup>3</sup> 3 Years	11	90.5	92.1				11	9.0	1.0	90.5	92.1	-1.6	0.84
3 Years <sup>3</sup>		90.5	84.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Methodist Hospital of Indiana - Indianapolis IN**  
**Provider Number 150056 (INIM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>12</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	4	33.3	727	22.6
	18-29	6	50.0	1265	39.3
	30-39	1	8.3	608	18.9
	40-49	1	8.3	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	11	91.7	2790	86.6
	Black	1	8.3	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	5	41.7	622	19.3
	30-39	5	41.7	1616	50.2
	40-49	2	16.7	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	12	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	8	66.7	1059	32.9
	10-17	3	25.0	1440	44.7
	18-30	1	8.3	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	3	25.0	876	27.2
	20-29	6	50.0	1725	53.5
	30-39	3	25.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	12	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	12	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	3	25.0	641	19.9
	9-13	4	33.3	1000	31.0
	14-18	4	33.3	867	26.9
	19-23	1	8.3	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	1	8.3	74	2.3
	2	1	8.3	265	8.2
	3	6	50.0	618	19.2
	4	4	33.3	933	29.0
	5	0	0.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	4	33.3	393	12.2
	1990	3	25.0	517	16.0
	1991	3	25.0	522	16.2
	1992	1	8.3	548	17.0
	1993-1994	1	8.3	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Indiana University Medical Center - Indianapolis IN  
Provider Number 150032 (INIU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	22	81.8	81.0	10	90.0	85.6	32	32	5	84.4	82.4	2.0	0.77
1 Year	22	72.7	68.7	10	80.0	77.2	32	32	8	75.0	71.4	3.6	0.64
Cond. <sup>3</sup> 3 Years	16	93.7	86.1				16	15	1	93.7	86.1	7.6	0.35
3 Years <sup>3</sup>		68.2	59.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	22	95.5	95.6	10	90.0	96.7	32	32.0	2.0	93.8	95.9	-2.2	0.53
1 Year	22	86.4	90.6	10	90.0	91.6	32	32.0	4.0	87.5	90.9	-3.4	0.50
Cond. <sup>3</sup> 3 Years	19	94.6	93.0				19	18.0	1.0	94.6	93.0	1.6	0.78
3 Years <sup>3</sup>		81.7	84.3										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Indiana University Medical Center - Indianapolis IN**  
**Provider Number 150032 (INIU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>32</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	8	25.0	727	22.6
	18-29	12	37.5	1265	39.3
	30-39	5	15.6	608	18.9
	40-49	6	18.8	450	14.0
	50+	1	3.1	172	5.3
<b>Donor Race</b>	White	31	96.9	2790	86.6
	Black	1	3.1	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	4	12.5	622	19.3
	30-39	18	56.3	1616	50.2
	40-49	10	31.3	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	29	90.6	2955	91.7
	Black	2	6.3	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	1	3.1	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	14	43.8	1059	32.9
	10-17	11	34.4	1440	44.7
	18-30	6	18.8	611	19.0
	31+	1	3.1	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	3.1	36	1.1
	10-19	7	21.9	876	27.2
	20-29	17	53.1	1725	53.5
	30-39	7	21.9	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	32	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	25	78.1	2804	87.0
	PAK	3	9.4	204	6.3
	PTA	4	12.5	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	4	12.5	641	19.9
	9-13	9	28.1	1000	31.0
	14-18	8	25.0	867	26.9
	19-23	10	31.3	509	15.8
	24+	1	3.1	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	3	9.4	74	2.3
	2	5	15.6	265	8.2
	3	11	34.4	618	19.2
	4	9	28.1	933	29.0
	5	1	3.1	860	26.7
	6	2	6.3	388	12.0
	Not Reported	1	3.1	49	1.5
<b>Year of Transplant</b>	1988	2	6.3	232	7.2
	1989	8	25.0	393	12.2
	1990	8	25.0	517	16.0
	1991	3	9.4	522	16.2
	1992	5	15.6	548	17.0
	1993-1994	6	18.8	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Via Christi Regional Medical Center - Wichita KS  
Provider Number 170122 (KSFV)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	4	100.0	83.4	4	75.0	85.6	8	8	1	87.5	84.5	3.0	0.82
1 Year	4	75.0	74.6	4	75.0	79.5	8	8	2	75.0	77.1	-2.1	0.89
Cond. <sup>3</sup> 3 Years	3	100.0	93.7				3	3	0	100.0	93.7	6.3	1.00
3 Years <sup>3</sup>		75.0	69.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	4	100.0	93.4	4	100.0	95.3	8	8.0	0.0	100.0	94.4	5.6	0.49
1 Year	4	75.0	88.5	4	75.0	89.8	8	8.0	2.0	75.0	89.2	-14.2	0.19
Cond. <sup>3</sup> 3 Years	3	100.0	89.9				3	3.0	0.0	100.0	89.9	10.1	1.00
3 Years <sup>3</sup>		75.0	79.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

Via Christi Regional Medical Center - Wichita KS  
 Provider Number 170122 (KSFV)

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>8</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	2	25.0	727	22.6
	18-29	2	25.0	1265	39.3
	30-39	1	12.5	608	18.9
	40-49	3	37.5	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	8	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	7	87.5	1616	50.2
	40-49	1	12.5	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	8	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	3	37.5	1059	32.9
	10-17	4	50.0	1440	44.7
	18-30	1	12.5	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	12.5	876	27.2
	20-29	5	62.5	1725	53.5
	30-39	2	25.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	8	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	8	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	8	100.0	641	19.9
	9-13	0	0.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	4	50.0	933	29.0
	5	2	25.0	860	26.7
	6	2	25.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	2	25.0	393	12.2
	1990	1	12.5	517	16.0
	1991	1	12.5	522	16.2
	1992	3	37.5	548	17.0
	1993-1994	1	12.5	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Jewish Hospital - Louisville KY  
Provider Number 180040 (KYJH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	20	80.0	79.0	11	90.9	85.8	31	31	5	83.9	81.4	2.5	0.72
1 Year	20	65.0	65.4	11	72.7	77.6	31	31	10	67.7	69.7	-2.0	0.80
Cond. <sup>3</sup> 3 Years	13	84.4	90.1				13	12	2	84.4	90.1	-5.7	0.47
3 Years <sup>3</sup>		54.9	58.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	20	95.0	93.4	11	100.0	98.1	31	31.0	1.0	96.8	95.1	1.7	0.66
1 Year	20	85.0	88.8	11	81.8	92.7	31	31.0	5.0	83.9	90.2	-6.3	0.23
Cond. <sup>3</sup> 3 Years	17	94.1	91.9				17	17.0	1.0	94.1	91.9	2.2	0.74
3 Years <sup>3</sup>		80.0	81.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Jewish Hospital - Louisville KY**  
**Provider Number 180040 (KYJH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>31</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	6	19.4	727	22.6
	18-29	14	45.2	1265	39.3
	30-39	8	25.8	608	18.9
	40-49	2	6.5	450	14.0
	50+	1	3.2	172	5.3
<b>Donor Race</b>	White	30	96.8	2790	86.6
	Black	1	3.2	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	6	19.4	622	19.3
	30-39	19	61.3	1616	50.2
	40-49	6	19.4	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	30	96.8	2955	91.7
	Black	1	3.2	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	10	32.3	1059	32.9
	10-17	13	41.9	1440	44.7
	18-30	5	16.1	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	3	9.7	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	3.2	36	1.1
	10-19	6	19.4	876	27.2
	20-29	18	58.1	1725	53.5
	30-39	3	9.7	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	3	9.7	53	1.6
<b>Previous Pancreas Transplant</b>	No	29	93.5	3096	96.1
	Yes	2	6.5	126	3.9
<b>Transplant Procedure</b>	SKP	24	77.4	2804	87.0
	PAK	4	12.9	204	6.3
	PTA	3	9.7	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	18	58.1	641	19.9
	9-13	3	9.7	1000	31.0
	14-18	6	19.4	867	26.9
	19-23	2	6.5	509	15.8
	24+	2	6.5	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	1	3.2	35	1.1
	1	0	0.0	74	2.3
	2	1	3.2	265	8.2
	3	9	29.0	618	19.2
	4	5	16.1	933	29.0
	5	10	32.3	860	26.7
	6	1	3.2	388	12.0
	Not Reported	4	12.9	49	1.5
<b>Year of Transplant</b>	1988	4	12.9	232	7.2
	1989	5	16.1	393	12.2
	1990	9	29.0	517	16.0
	1991	2	6.5	522	16.2
	1992	1	3.2	548	17.0
	1993-1994	10	32.3	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994****Survival Report for University Hospital - New Orleans LA  
Provider Number 190035 (LANO)****Graft Survival**

	<b>Era 1:</b> 1/1/88-4/30/92			<b>Era 2:</b> 5/1/92-4/30/94			<b>Overall:</b> 1/1/88-4/30/94						
<b>Time Point</b>	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
<b>3 Month</b>				8	100.0	86.7	8	8	0	100.0	86.7	13.3	0.26
<b>1 Year</b>				8	86.9	77.1	8	6	1	86.9	77.1	9.9	0.50
<b>Cond. <sup>3</sup> 3 Years</b>													
<b>3 Years <sup>3</sup></b>													

**Patient Survival**

	<b>Era 1:</b> 1/1/88-4/30/92			<b>Era 2:</b> 5/1/92-4/30/94			<b>Overall:</b> 1/1/88-4/30/94						
<b>Time Point</b>	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
<b>3 Month</b>				8	100.0	97.9	8	7.5	0.0	100.0	97.9	2.1	0.69
<b>1 Year</b>				8	86.0	93.3	8	5.5	1.0	86.0	93.3	-7.3	0.43
<b>Cond. <sup>3</sup> 3 Years</b>													
<b>3 Years <sup>3</sup></b>													

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University Hospital - New Orleans LA**  
**Provider Number 190035 (LANO)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>8</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	5	62.5	727	22.6
	18-29	1	12.5	1265	39.3
	30-39	2	25.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	8	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	25.0	622	19.3
	30-39	5	62.5	1616	50.2
	40-49	1	12.5	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	7	87.5	2955	91.7
	Black	1	12.5	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	2	25.0	1059	32.9
	10-17	6	75.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	2	25.0	876	27.2
	20-29	5	62.5	1725	53.5
	30-39	1	12.5	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	7	87.5	3096	96.1
	Yes	1	12.5	126	3.9
<b>Transplant Procedure</b>	SKP	7	87.5	2804	87.0
	PAK	1	12.5	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	12.5	641	19.9
	9-13	6	75.0	1000	31.0
	14-18	1	12.5	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	1	12.5	74	2.3
	2	1	12.5	265	8.2
	3	3	37.5	618	19.2
	4	1	12.5	933	29.0
	5	1	12.5	860	26.7
	6	1	12.5	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	8	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Ochsner Foundation Hospital - New Orleans LA  
Provider Number 190036 (LAOF)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	14	100.0	85.1	5	80.0	88.5	19	19	1	94.7	86.0	8.7	0.27
1 Year	14	100.0	73.8	5	80.0	82.4	19	19	1	94.7	76.1	18.6	0.05*
Cond. <sup>3</sup> 3 Years	14	85.7	88.3				14	14	2	85.7	88.3	-2.6	0.75
3 Years <sup>3</sup>		85.7	65.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	14	100.0	95.8	5	100.0	97.1	19	18.5	0.0	100.0	96.2	3.8	0.38
1 Year	14	100.0	92.0	5	100.0	92.1	19	18.5	0.0	100.0	92.0	8.0	0.20
Cond. <sup>3</sup> 3 Years	14	92.9	93.0				14	14.0	1.0	92.9	93.0	-0.1	0.99
3 Years <sup>3</sup>		92.9	85.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Ochsner Foundation Hospital - New Orleans LA**  
**Provider Number 190036 (LAOF)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>19</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	6	31.6	727	22.6
	18-29	8	42.1	1265	39.3
	30-39	4	21.1	608	18.9
	40-49	0	0.0	450	14.0
	50+	1	5.3	172	5.3
<b>Donor Race</b>	White	17	89.5	2790	86.6
	Black	1	5.3	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	1	5.3	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	4	21.1	622	19.3
	30-39	6	31.6	1616	50.2
	40-49	8	42.1	873	27.1
	50+	1	5.3	107	3.3
<b>Recipient Race</b>	White	17	89.5	2955	91.7
	Black	2	10.5	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	6	31.6	1059	32.9
	10-17	11	57.9	1440	44.7
	18-30	2	10.5	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	5.3	876	27.2
	20-29	14	73.7	1725	53.5
	30-39	4	21.1	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	19	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	16	84.2	2804	87.0
	PAK	1	5.3	204	6.3
	PTA	2	10.5	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	5.3	641	19.9
	9-13	5	26.3	1000	31.0
	14-18	10	52.6	867	26.9
	19-23	3	15.8	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	1	5.3	74	2.3
	2	5	26.3	265	8.2
	3	4	21.1	618	19.2
	4	5	26.3	933	29.0
	5	3	15.8	860	26.7
	6	1	5.3	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	3	15.8	517	16.0
	1991	10	52.6	522	16.2
	1992	4	21.1	548	17.0
	1993-1994	2	10.5	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: Ochsner Foundation Hospital  
1514 Jefferson Highway, New Orleans, LA 70121  
Provider Number 190036 (LAOF)**

May 5, 1997

The data shows that since the inception of the Pancreas Transplant Program in 1990 the survival rate for the pancreas graft is 94.7% at one year, which is statistically significantly better than the expected graft survival rate of 76.1%, despite the small number of transplants performed. This reflects the high quality of care that the pancreas recipients were receiving at our institution at that time. The Pancreas Transplant Program was briefly inactive in the latter part of 1994 due to a change in personnel, since the program was reactivated in 1995, we have performed an additional nine combined kidney/pancreas transplants with actual graft survival of 89%. Again this reflects the continued high quality of care the recipients are receiving at our institution.

Stephen S. Cheng, M.D.  
Director of Pancreas Transplant





## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Tulane University Medical Center - New Orleans LA  
Provider Number 190176 (LATU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				4	75.0	88.4	4	4	1	75.0	88.4	-13.4	0.39
1 Year				4	75.0	81.0	4	4	1	75.0	81.0	-6.0	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				4	100.0	97.6	4	4.0	0.0	100.0	97.6	2.4	1.00
1 Year				4	100.0	92.0	4	3.0	0.0	100.0	92.0	8.0	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Tulane University Medical Center - New Orleans LA**  
**Provider Number 190176 (LATU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>4</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	25.0	727	22.6
	18-29	3	75.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	2	50.0	2790	86.6
	Black	2	50.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	25.0	622	19.3
	30-39	1	25.0	1616	50.2
	40-49	2	50.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	3	75.0	2955	91.7
	Black	1	25.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	0	0.0	1059	32.9
	10-17	4	100.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	25.0	876	27.2
	20-29	1	25.0	1725	53.5
	30-39	2	50.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	4	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	4	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	2	50.0	641	19.9
	9-13	2	50.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	3	75.0	933	29.0
	5	0	0.0	860	26.7
	6	1	25.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	4	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Beth Israel Hospital - Boston MA  
Provider Number 220086 (MABI)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	10	90.0	82.0	4	100.0	84.6	14	14	1	92.9	82.8	10.1	0.31
1 Year	10	70.0	71.0	4	100.0	74.7	14	14	3	78.6	72.1	6.5	0.58
Cond. <sup>3</sup> 3 Years	7	85.7	89.9				7	7	1	85.7	89.9	-4.2	0.70
3 Years <sup>3</sup>		60.0	63.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	10	90.0	94.0	4	100.0	97.6	14	14.0	1.0	92.9	95.0	-2.2	0.71
1 Year	10	80.0	89.5	4	100.0	89.8	14	14.0	2.0	85.7	89.6	-3.9	0.63
Cond. <sup>3</sup> 3 Years	8	87.5	93.1				8	8.0	1.0	87.5	93.1	-5.6	0.53
3 Years <sup>3</sup>		70.0	83.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Beth Israel Hospital - Boston MA**  
**Provider Number 220086 (MABI)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>14</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	7.1	727	22.6
	18-29	9	64.3	1265	39.3
	30-39	1	7.1	608	18.9
	40-49	2	14.3	450	14.0
	50+	1	7.1	172	5.3
<b>Donor Race</b>	White	13	92.9	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	1	7.1	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	14.3	622	19.3
	30-39	9	64.3	1616	50.2
	40-49	2	14.3	873	27.1
	50+	1	7.1	107	3.3
<b>Recipient Race</b>	White	13	92.9	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	1	7.1	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	4	28.6	1059	32.9
	10-17	6	42.9	1440	44.7
	18-30	4	28.6	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	5	35.7	876	27.2
	20-29	7	50.0	1725	53.5
	30-39	1	7.1	490	15.2
	40+	1	7.1	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	14	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	12	85.7	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	2	14.3	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	8	57.1	641	19.9
	9-13	6	42.9	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	7.1	265	8.2
	3	2	14.3	618	19.2
	4	2	14.3	933	29.0
	5	3	21.4	860	26.7
	6	6	42.9	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	3	21.4	232	7.2
	1989	3	21.4	393	12.2
	1990	3	21.4	517	16.0
	1991	1	7.1	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	4	28.6	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Baystate Medical Center - Springfield MA  
Provider Number 220077 (MABS)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				2	50.0	81.7	2	2	1	50.0	81.7	-31.7	0.33
1 Year				2	50.0	69.9	2	2	1	50.0	69.9	-19.9	1.00
Cond. <sup>3</sup>													
3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				2	100.0	97.2	2	2.0	0.0	100.0	97.2	2.8	1.00
1 Year				2	100.0	88.3	2	1.0	0.0	100.0	88.3	11.7	1.00
Cond. <sup>3</sup>													
3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/S cientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Baystate Medical Center - Springfield MA**  
**Provider Number 220077 (MABS)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>2</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	0	0.0	727	22.6
	18-29	0	0.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	2	100.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	2	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	0	0.0	1616	50.2
	40-49	1	50.0	873	27.1
	50+	1	50.0	107	3.3
<b>Recipient Race</b>	White	2	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	0	0.0	1059	32.9
	10-17	0	0.0	1440	44.7
	18-30	1	50.0	611	19.0
	31+	1	50.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	50.0	876	27.2
	20-29	1	50.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	2	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	2	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	2	100.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	1	50.0	933	29.0
	5	1	50.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	2	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Beth Israel Deaconess Medical Center - Boston MA  
Provider Number 220118 (MAHS)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	30	90.0	84.3	13	100.0	85.3	43	43	3	93.0	84.6	8.4	0.12
1 Year	30	80.0	75.3	13	84.6	76.9	43	43	8	81.4	75.8	5.6	0.38
Cond. <sup>3</sup> 3 Years	24	91.5	92.6				24	22	2	91.5	92.6	-1.1	0.83
3 Years <sup>3</sup>		73.2	69.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	30	100.0	94.3	13	100.0	96.4	43	43.0	0.0	100.0	94.9	5.1	0.12
1 Year	30	96.7	89.5	13	92.3	90.8	43	43.0	2.0	95.3	89.9	5.5	0.23
Cond. <sup>3</sup> 3 Years	29	92.8	92.3				29	26.0	2.0	92.8	92.3	0.6	0.91
3 Years <sup>3</sup>		89.8	82.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Beth Israel Deaconess Medical Center - Boston MA**  
**Provider Number 220118 (MAHS)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>43</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	11	25.6	727	22.6
	18-29	18	41.9	1265	39.3
	30-39	9	20.9	608	18.9
	40-49	4	9.3	450	14.0
	50+	1	2.3	172	5.3
<b>Donor Race</b>	White	39	90.7	2790	86.6
	Black	1	2.3	264	8.2
	Hispanic	2	4.7	131	4.1
	Asian	0	0.0	23	0.7
	Other	1	2.3	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	4	9.3	622	19.3
	30-39	25	58.1	1616	50.2
	40-49	13	30.2	873	27.1
	50+	1	2.3	107	3.3
<b>Recipient Race</b>	White	38	88.4	2955	91.7
	Black	2	4.7	153	4.7
	Hispanic	2	4.7	63	2.0
	Asian	0	0.0	9	0.3
	Other	1	2.3	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	11	25.6	1059	32.9
	10-17	24	55.8	1440	44.7
	18-30	8	18.6	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	8	18.6	876	27.2
	20-29	26	60.5	1725	53.5
	30-39	9	20.9	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	43	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	40	93.0	2804	87.0
	PAK	1	2.3	204	6.3
	PTA	2	4.7	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	21	48.8	641	19.9
	9-13	19	44.2	1000	31.0
	14-18	3	7.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	1	2.3	35	1.1
	1	0	0.0	74	2.3
	2	2	4.7	265	8.2
	3	4	9.3	618	19.2
	4	17	39.5	933	29.0
	5	15	34.9	860	26.7
	6	3	7.0	388	12.0
	Not Reported	1	2.3	49	1.5
<b>Year of Transplant</b>	1988	3	7.0	232	7.2
	1989	9	20.9	393	12.2
	1990	10	23.3	517	16.0
	1991	6	14.0	522	16.2
	1992	9	20.9	548	17.0
	1993-1994	6	14.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Massachusetts General Hospital - Boston MA  
Provider Number 220071 (MAMG)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	23	82.6	81.4	1	100.0	87.0	24	24	4	83.3	81.7	1.7	0.83
1 Year	23	78.3	74.7	1	100.0	80.2	24	24	5	79.2	75.0	4.2	0.63
Cond. <sup>3</sup> 3 Years	18	94.4	93.7				18	18	1	94.4	93.7	0.7	0.90
3 Years <sup>3</sup>		73.9	70.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	23	100.0	93.6	1	100.0	95.8	24	24.0	0.0	100.0	93.7	6.3	0.19
1 Year	23	95.7	88.6	1	100.0	88.7	24	24.0	1.0	95.8	88.6	7.2	0.25
Cond. <sup>3</sup> 3 Years	22	100.0	92.0				22	22.0	0.0	100.0	92.0	8.0	0.16
3 Years <sup>3</sup>		95.7	81.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Massachusetts General Hospital - Boston MA**  
**Provider Number 220071 (MAMG)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>24</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	4	16.7	727	22.6
	18-29	12	50.0	1265	39.3
	30-39	5	20.8	608	18.9
	40-49	3	12.5	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	22	91.7	2790	86.6
	Black	2	8.3	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	7	29.2	622	19.3
	30-39	11	45.8	1616	50.2
	40-49	6	25.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	24	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	6	25.0	1059	32.9
	10-17	15	62.5	1440	44.7
	18-30	3	12.5	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	9	37.5	876	27.2
	20-29	13	54.2	1725	53.5
	30-39	2	8.3	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	24	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	24	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	21	87.5	641	19.9
	9-13	0	0.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	3	12.5	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	2	8.3	265	8.2
	3	3	12.5	618	19.2
	4	9	37.5	933	29.0
	5	8	33.3	860	26.7
	6	2	8.3	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	12	50.0	232	7.2
	1989	8	33.3	393	12.2
	1990	3	12.5	517	16.0
	1991	0	0.0	522	16.2
	1992	1	4.2	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Mass. Medical Center - Worcester MA  
Provider Number 220163 (MAUM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	88.0	1	1	0	100.0	88.0	12.0	1.00
1 Year				1	100.0	81.3	1	1	0	100.0	81.3	18.7	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	97.4	1	1.0	0.0	100.0	97.4	2.6	1.00
1 Year				1	100.0	92.1	1	1.0	0.0	100.0	92.1	7.9	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Mass. Medical Center - Worcester MA**  
**Provider Number 220163 (MAUM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	0	0.0	727	22.6
	18-29	1	100.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	1	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	1	100.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	1	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	1	100.0	1059	32.9
	10-17	0	0.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	0	0.0	876	27.2
	20-29	1	100.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	1	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	1	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	100.0	641	19.9
	9-13	0	0.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	0	0.0	933	29.0
	5	1	100.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	1	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Johns Hopkins Hospital - Baltimore MD  
Provider Number 210009 (MDJH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				5	100.0	83.1	5	5	0	100.0	83.1	16.9	0.60
1 Year				5	100.0	71.4	5	5	0	100.0	71.4	28.6	0.33
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				5	100.0	97.4	5	5.0	0.0	100.0	97.4	2.6	1.00
1 Year				5	100.0	90.0	5	5.0	0.0	100.0	90.0	10.0	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Johns Hopkins Hospital - Baltimore MD**  
**Provider Number 210009 (MDJH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>5</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	2	40.0	727	22.6
	18-29	2	40.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	1	20.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	4	80.0	2790	86.6
	Black	1	20.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	2	40.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	3	60.0	107	3.3
<b>Recipient Race</b>	White	4	80.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	1	20.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	0	0.0	1059	32.9
	10-17	1	20.0	1440	44.7
	18-30	4	80.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	2	40.0	876	27.2
	20-29	1	20.0	1725	53.5
	30-39	2	40.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	5	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	3	60.0	2804	87.0
	PAK	2	40.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	3	60.0	1000	31.0
	14-18	2	40.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	20.0	265	8.2
	3	3	60.0	618	19.2
	4	1	20.0	933	29.0
	5	0	0.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	2	40.0	548	17.0
	1993-1994	3	60.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Maryland Medical System - Baltimore MD  
Provider Number 210002 (MDUM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	15	93.3	86.3	55	85.3	84.1	70	69	9	87.1	84.5	2.5	0.55
1 Year	15	93.3	79.0	55	74.1	73.6	70	69	15	78.3	74.7	3.6	0.48
Cond. <sup>3</sup> 3 Years	14	92.9	93.7				14	14	1	92.9	93.7	-0.9	0.89
3 Years <sup>3</sup>		86.7	74.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	15	100.0	95.4	54	96.2	97.3	68	67.0	2.0	97.0	96.9	0.2	0.94
1 Year	15	100.0	91.5	54	91.4	91.8	68	66.0	4.5	93.3	91.7	1.5	0.64
Cond. <sup>3</sup> 3 Years	15	100.0	90.0				15	15.0	0.0	100.0	90.0	10.0	0.17
3 Years <sup>3</sup>		100.0	82.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Maryland Medical System - Baltimore MD**  
**Provider Number 210002 (MDUM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>70</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	19	27.1	727	22.6
	18-29	25	35.7	1265	39.3
	30-39	15	21.4	608	18.9
	40-49	7	10.0	450	14.0
	50+	4	5.7	172	5.3
<b>Donor Race</b>	White	56	80.0	2790	86.6
	Black	12	17.1	264	8.2
	Hispanic	1	1.4	131	4.1
	Asian	1	1.4	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	15	21.4	622	19.3
	30-39	29	41.4	1616	50.2
	40-49	20	28.6	873	27.1
	50+	6	8.6	107	3.3
<b>Recipient Race</b>	White	66	94.3	2955	91.7
	Black	3	4.3	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	1	1.4	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	25	35.7	1059	32.9
	10-17	29	41.4	1440	44.7
	18-30	14	20.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	2	2.9	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	17	24.3	876	27.2
	20-29	35	50.0	1725	53.5
	30-39	10	14.3	490	15.2
	40+	6	8.6	42	1.3
	Not Reported	2	2.9	53	1.6
<b>Previous Pancreas Transplant</b>	No	68	97.1	3096	96.1
	Yes	2	2.9	126	3.9
<b>Transplant Procedure</b>	SKP	55	78.6	2804	87.0
	PAK	11	15.7	204	6.3
	PTA	4	5.7	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	13	18.6	641	19.9
	9-13	28	40.0	1000	31.0
	14-18	16	22.9	867	26.9
	19-23	10	14.3	509	15.8
	24+	2	2.9	164	5.1
	Not Reported	1	1.4	41	1.3
<b>Level of Mismatch</b>	0	2	2.9	35	1.1
	1	4	5.7	74	2.3
	2	11	15.7	265	8.2
	3	12	17.1	618	19.2
	4	17	24.3	933	29.0
	5	17	24.3	860	26.7
	6	7	10.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	9	12.9	522	16.2
	1992	24	34.3	548	17.0
	1993-1994	37	52.9	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: The University of Maryland Medical System  
29 South Greene Street, Baltimore, MD 21201  
Provider Number 210002 (MDUM)**

May 6, 1997

The University of Maryland Division of Transplantation is proud of the results in the pancreas transplant center specific data reported here. The first pancreas transplant at the University of Maryland was performed with a simultaneous kidney transplant in 1991. Both organs are still functioning and the patient has been insulin and dialysis-free since then. Over the last six years the University of Maryland pancreas transplant program has grown into one of the largest in the world.

Since the program's inception we have had a liberal recipient acceptance policy, and have generally sought ways to prepare patients for transplantation, rather than look for reasons to turn them down. Despite a willingness to offer pancreas transplants to both low and high risk patients, our patient survival rates have been consistently at or above the national norms, as shown in this center specific data report. Our thirty-day mortality rate after over 260 pancreas transplants is still zero. The pancreas graft survival figures are also above average, especially when one considers the high percentage performed at the University of Maryland as solitary pancreas transplants, without a kidney. It is much more difficult to achieve success with solitary pancreas transplants than with the more popular pancreas-with-kidney transplants.

Although the results of pancreas transplantation have progressively improved over the years, there are still many aspects of the procedure that are in development. The University of Maryland has pioneered several recent advances in the field. For example, we demonstrated that percutaneous needle biopsy to diagnose rejection is superior to the traditional biopsy approach through the urinary bladder. We described markedly improved outcomes with solitary pancreas transplants using a program that includes rejection diagnosis with percutaneous biopsy, and rejection prevention with the new drug tacrolimus. We found that the technique of pancreas transplantation which connects the graft to the bowel instead of the urinary bladder is associated with fewer complications. We have also successfully explored methods to prevent early thrombosis of solitary pancreas transplants, which has been a frustrating problem for many programs.

The professional staff at the University of Maryland transplant program has grown in proportion to the increasing transplant volume. It currently includes five full-time transplant surgeons, a transplant endocrinologist, a full-time infectious disease consultant, eight nurse coordinators, three transplant pharmacists, two dedicated social workers, two full-time financial counselors, and many more individuals devoted solely to providing excellence in pre- and post-transplant care.

We are very pleased that, with pancreas transplantation, we have been able to free many long-standing juvenile diabetic patients from the need for insulin, while allowing them to take a liberal diet and still maintain normal blood glucose control. It is very gratifying to see the quality of life of debilitated diabetics improve dramatically after pancreas transplantation. Some patients have been able to walk for the first time in years after their pancreas transplant allows healing of their diabetic neuropathy. Our first pancreas recipient has been employed full-time for years now, as have many others who have been afforded a chance to live a better life.

Stephen T. Bartlett, M.D.  
Head, Division of Transplantation





## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Henry Ford Hospital - Detroit MI  
Provider Number 230053 (MIHF)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	8	75.0	79.6	19	89.5	85.7	27	27	4	85.2	83.9	1.3	0.85
1 Year	8	50.0	72.4	19	78.6	77.4	27	26	8	70.0	75.9	-5.9	0.47
Cond. <sup>3</sup> 3 Years	4	61.9	93.7				4	2	1	61.9	93.7	-31.9	0.16
3 Years <sup>3</sup>		30.9	67.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	8	86.7	93.0	19	100.0	96.9	27	26.5	1.0	96.2	95.8	0.4	0.90
1 Year	8	86.3	90.6	19	89.1	92.1	27	23.5	3.0	88.3	91.6	-3.3	0.55
Cond. <sup>3</sup> 3 Years	6	66.7	91.8				6	6.0	2.0	66.7	91.8	-25.1	0.02*
3 Years <sup>3</sup>		57.6	83.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Henry Ford Hospital - Detroit MI**  
**Provider Number 230053 (MIHF)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>27</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	4	14.8	727	22.6
	18-29	13	48.1	1265	39.3
	30-39	3	11.1	608	18.9
	40-49	7	25.9	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	21	77.8	2790	86.6
	Black	4	14.8	264	8.2
	Hispanic	2	7.4	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	8	29.6	622	19.3
	30-39	14	51.9	1616	50.2
	40-49	5	18.5	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	24	88.9	2955	91.7
	Black	3	11.1	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	11	40.7	1059	32.9
	10-17	12	44.4	1440	44.7
	18-30	4	14.8	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	9	33.3	876	27.2
	20-29	16	59.3	1725	53.5
	30-39	2	7.4	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	27	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	25	92.6	2804	87.0
	PAK	1	3.7	204	6.3
	PTA	1	3.7	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	8	29.6	641	19.9
	9-13	15	55.6	1000	31.0
	14-18	2	7.4	867	26.9
	19-23	2	7.4	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	1	3.7	35	1.1
	1	0	0.0	74	2.3
	2	3	11.1	265	8.2
	3	4	14.8	618	19.2
	4	10	37.0	933	29.0
	5	6	22.2	860	26.7
	6	3	11.1	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	4	14.8	232	7.2
	1989	4	14.8	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	5	18.5	548	17.0
	1993-1994	14	51.9	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: Henry Ford Hospital  
2799 West Grand Boulevard, Detroit, MI 48202  
Provider Number 230053 (MIHF)**

May 8, 1997

The pancreas transplant program at Henry Ford Hospital was initiated in 1987 and was interrupted between May, 1989 and July, 1992 secondary to personnel changes.

Since 1992, the program has performed 39 pancreas transplants. The results are fairly accurately represented in the ERA 2 statistics (May, 1992-April, 1994) of the UNOS 1996 Center Specific Graft and Patient Survival Report. Our actual one and two year graft survival rates are 77% and 70% respectively. These results are similar to the expected outcomes.

As a multi-organ transplant center active in the transplantation of kidney, liver, heart and lung, the institution has the commitment and capability to provide high quality transplantation services for all of our transplant recipients including those seeking pancreatic transplantation. We continuously strive to improve on our past record of excellence.

Martin F. Mozes, M.D., FACS  
Director, Kidney/Pancreas Transplant Program





## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Grace Hospital - Detroit MI  
Provider Number 230039 (MIMC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	3	0.0	78.5				3	3	3	0.0	78.5	-78.5	<0.01*
1 Year	3	0.0	64.1				3	3	3	0.0	64.1	-64.1	0.05*
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	3	20.0	94.5				3	2.5	2.0	20.0	94.5	-74.5	<0.01*
1 Year	3	20.0	89.8				3	2.5	2.0	20.0	89.8	-69.8	0.03*
Cond. <sup>3</sup> 3 Years	1	0.0	92.5				1	1.0	1.0	0.0	92.5	-92.5	0.08
3 Years <sup>3</sup>		0.0	83.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Grace Hospital - Detroit MI**  
**Provider Number 230039 (MIMC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>3</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	33.3	727	22.6
	18-29	1	33.3	1265	39.3
	30-39	1	33.3	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	2	66.7	2790	86.6
	Black	1	33.3	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	66.7	622	19.3
	30-39	0	0.0	1616	50.2
	40-49	1	33.3	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	3	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	2	66.7	1059	32.9
	10-17	1	33.3	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	33.3	876	27.2
	20-29	1	33.3	1725	53.5
	30-39	0	0.0	490	15.2
	40+	1	33.3	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	3	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	2	66.7	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	1	33.3	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	1	33.3	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	2	66.7	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	2	66.7	618	19.2
	4	0	0.0	933	29.0
	5	0	0.0	860	26.7
	6	1	33.3	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	2	66.7	232	7.2
	1989	0	0.0	393	12.2
	1990	1	33.3	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for St John Hospital & Medical Center - Detroit MI  
Provider Number 230165 (MISJ)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	3	100.0	78.3	10	90.0	84.5	13	13	1	92.3	83.1	9.2	0.36
1 Year	3	100.0	65.1	10	70.0	72.8	13	13	3	76.9	71.0	5.9	0.62
Cond. <sup>3</sup> 3 Years	3	100.0	77.2				3	3	0	100.0	77.2	22.8	0.59
3 Years <sup>3</sup>		100.0	50.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	3	100.0	95.2	10	100.0	96.8	13	12.5	0.0	100.0	96.4	3.6	0.49
1 Year	3	100.0	90.2	10	84.2	91.4	13	12.5	1.5	88.0	91.1	-3.1	0.71
Cond. <sup>3</sup> 3 Years	3	100.0	92.1				3	3.0	0.0	100.0	92.1	7.9	1.00
3 Years <sup>3</sup>		100.0	83.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St John Hospital & Medical Center - Detroit MI**  
**Provider Number 230165 (MISJ)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>13</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	6	46.2	727	22.6
	18-29	3	23.1	1265	39.3
	30-39	1	7.7	608	18.9
	40-49	3	23.1	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	10	76.9	2790	86.6
	Black	3	23.1	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	3	23.1	622	19.3
	30-39	4	30.8	1616	50.2
	40-49	5	38.5	873	27.1
	50+	1	7.7	107	3.3
<b>Recipient Race</b>	White	12	92.3	2955	91.7
	Black	1	7.7	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	3	23.1	1059	32.9
	10-17	7	53.8	1440	44.7
	18-30	3	23.1	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	3	23.1	876	27.2
	20-29	9	69.2	1725	53.5
	30-39	1	7.7	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	12	92.3	3096	96.1
	Yes	1	7.7	126	3.9
<b>Transplant Procedure</b>	SKP	8	61.5	2804	87.0
	PAK	3	23.1	204	6.3
	PTA	2	15.4	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	9	69.2	641	19.9
	9-13	4	30.8	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	7	53.8	618	19.2
	4	3	23.1	933	29.0
	5	3	23.1	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	6	46.2	548	17.0
	1993-1994	7	53.8	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Michigan Medical Center - Ann Arbor MI  
Provider Number 230046 (MIUM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	2	100.0	83.2	21	100.0	86.1	23	23	0	100.0	85.8	14.2	0.05*
1 Year	2	50.0	71.4	21	95.2	78.9	23	23	2	91.3	78.2	13.1	0.12
Cond. <sup>3</sup> 3 Years	1	100.0	93.7				1	1	0	100.0	93.7	6.3	1.00
3 Years <sup>3</sup>		50.0	66.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	2	100.0	94.6	21	100.0	97.4	23	23.0	0.0	100.0	97.2	2.8	0.41
1 Year	2	50.0	89.1	21	100.0	92.4	23	23.0	1.0	95.7	92.1	3.5	0.53
Cond. <sup>3</sup> 3 Years	1	100.0	93.3				1	1.0	0.0	100.0	93.3	6.7	1.00
3 Years <sup>3</sup>		50.0	83.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Michigan Medical Center - Ann Arbor MI**  
**Provider Number 230046 (MIUM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>23</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	4	17.4	727	22.6
	18-29	9	39.1	1265	39.3
	30-39	5	21.7	608	18.9
	40-49	5	21.7	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	22	95.7	2790	86.6
	Black	1	4.3	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	3	13.0	622	19.3
	30-39	18	78.3	1616	50.2
	40-49	2	8.7	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	21	91.3	2955	91.7
	Black	1	4.3	153	4.7
	Hispanic	1	4.3	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	3	13.0	1059	32.9
	10-17	15	65.2	1440	44.7
	18-30	4	17.4	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	1	4.3	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	12	52.2	876	27.2
	20-29	10	43.5	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	1	4.3	53	1.6
<b>Previous Pancreas Transplant</b>	No	23	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	23	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	13	56.5	641	19.9
	9-13	5	21.7	1000	31.0
	14-18	4	17.4	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	1	4.3	41	1.3
<b>Level of Mismatch</b>	0	1	4.3	35	1.1
	1	0	0.0	74	2.3
	2	1	4.3	265	8.2
	3	3	13.0	618	19.2
	4	5	21.7	933	29.0
	5	8	34.8	860	26.7
	6	5	21.7	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	2	8.7	517	16.0
	1991	0	0.0	522	16.2
	1992	1	4.3	548	17.0
	1993-1994	20	87.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Rochester Methodist Hospital - Rochester MN  
Provider Number 240061 (MNMC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	36	94.4	79.2	18	88.9	82.7	54	54	4	92.6	80.4	12.2	0.02*
1 Year	36	83.3	69.7	18	77.8	74.2	54	54	10	81.5	71.2	10.3	0.08
Cond. <sup>3</sup> 3 Years	30	93.3	91.9				30	29	2	93.3	91.9	1.3	0.78
3 Years <sup>3</sup>		77.7	64.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	36	97.2	95.1	18	94.4	97.4	54	54.0	2.0	96.3	95.9	0.4	0.88
1 Year	36	91.7	89.8	18	83.3	93.1	54	54.0	6.0	88.9	90.9	-2.0	0.59
Cond. <sup>3</sup> 3 Years	33	96.9	92.2				33	32.0	1.0	96.9	92.2	4.7	0.30
3 Years <sup>3</sup>		88.8	82.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Rochester Methodist Hospital - Rochester MN**  
**Provider Number 240061 (MNMHC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>54</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	9	16.7	727	22.6
	18-29	11	20.4	1265	39.3
	30-39	14	25.9	608	18.9
	40-49	14	25.9	450	14.0
	50+	6	11.1	172	5.3
<b>Donor Race</b>	White	50	92.6	2790	86.6
	Black	1	1.9	264	8.2
	Hispanic	2	3.7	131	4.1
	Asian	0	0.0	23	0.7
	Other	1	1.9	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	18	33.3	622	19.3
	30-39	23	42.6	1616	50.2
	40-49	13	24.1	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	53	98.1	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	1	1.9	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	20	37.0	1059	32.9
	10-17	22	40.7	1440	44.7
	18-30	12	22.2	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	1.9	36	1.1
	10-19	23	42.6	876	27.2
	20-29	23	42.6	1725	53.5
	30-39	7	13.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	54	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	48	88.9	2804	87.0
	PAK	1	1.9	204	6.3
	PTA	5	9.3	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	6	11.1	1000	31.0
	14-18	29	53.7	867	26.9
	19-23	13	24.1	509	15.8
	24+	6	11.1	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	2	3.7	35	1.1
	1	1	1.9	74	2.3
	2	1	1.9	265	8.2
	3	8	14.8	618	19.2
	4	19	35.2	933	29.0
	5	14	25.9	860	26.7
	6	9	16.7	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	14	25.9	232	7.2
	1989	8	14.8	393	12.2
	1990	6	11.1	517	16.0
	1991	6	11.1	522	16.2
	1992	11	20.4	548	17.0
	1993-1994	9	16.7	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Fairview University Medical Center - Minneapolis MN  
Provider Number 240049 (MNUM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	224	75.0	76.5	145	75.9	80.1	369	369	91	75.3	77.9	-2.6	0.14
1 Year	224	57.6	59.5	145	61.4	65.3	369	369	151	59.1	61.8	-2.7	0.18
Cond. <sup>3</sup> 3 Years	129	83.8	82.0				129	119	20	83.8	82.0	1.8	0.49
3 Years <sup>3</sup>		48.3	48.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	208	95.5	95.8	137	97.7	97.8	334	328.5	12.0	96.4	96.6	-0.2	0.80
1 Year	208	87.1	90.3	137	88.9	91.9	334	318.0	39.8	87.8	90.9	-3.1	0.02*
Cond. <sup>3</sup> 3 Years	182	89.4	91.6				182	167.5	18.5	89.4	91.6	-2.1	0.23
3 Years <sup>3</sup>		77.9	82.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Fairview University Medical Center - Minneapolis MN**  
**Provider Number 240049 (MNUM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>369</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	69	18.7	727	22.6
	18-29	113	30.6	1265	39.3
	30-39	61	16.5	608	18.9
	40-49	66	17.9	450	14.0
	50+	60	16.3	172	5.3
<b>Donor Race</b>	White	343	93.0	2790	86.6
	Black	10	2.7	264	8.2
	Hispanic	12	3.3	131	4.1
	Asian	1	0.3	23	0.7
	Other	3	0.8	14	0.4
<b>Recipient Age</b>	0-17	1	0.3	4	0.1
	18-29	68	18.4	622	19.3
	30-39	166	45.0	1616	50.2
	40-49	110	29.8	873	27.1
	50+	24	6.5	107	3.3
<b>Recipient Race</b>	White	356	96.5	2955	91.7
	Black	2	0.5	153	4.7
	Hispanic	3	0.8	63	2.0
	Asian	1	0.3	9	0.3
	Other	7	1.9	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	130	35.2	1059	32.9
	10-17	154	41.7	1440	44.7
	18-30	69	18.7	611	19.0
	31+	13	3.5	59	1.8
	Not Reported	3	0.8	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	8	2.2	36	1.1
	10-19	90	24.4	876	27.2
	20-29	182	49.3	1725	53.5
	30-39	79	21.4	490	15.2
	40+	7	1.9	42	1.3
	Not Reported	3	0.8	53	1.6
<b>Previous Pancreas Transplant</b>	No	301	81.6	3096	96.1
	Yes	68	18.4	126	3.9
<b>Transplant Procedure</b>	SKP	201	54.5	2804	87.0
	PAK	85	23.0	204	6.3
	PTA	83	22.5	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	5	1.4	641	19.9
	9-13	49	13.3	1000	31.0
	14-18	126	34.1	867	26.9
	19-23	129	35.0	509	15.8
	24+	60	16.3	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	16	4.3	35	1.1
	1	36	9.8	74	2.3
	2	73	19.8	265	8.2
	3	104	28.2	618	19.2
	4	82	22.2	933	29.0
	5	46	12.5	860	26.7
	6	11	3.0	388	12.0
	Not Reported	1	0.3	49	1.5
<b>Year of Transplant</b>	1988	53	14.4	232	7.2
	1989	58	15.7	393	12.2
	1990	59	16.0	517	16.0
	1991	40	10.8	522	16.2
	1992	54	14.6	548	17.0
	1993-1994	105	28.5	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Barnes-Jewish Hospital - Saint Louis MO  
Provider Number 260014 (MOBH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	8	75.0	81.7				8	8	2	75.0	81.7	-6.7	0.62
1 Year	8	75.0	70.6				8	8	2	75.0	70.6	4.4	0.78
Cond. <sup>3</sup> 3 Years	6	83.3	93.7				6	6	1	83.3	93.7	-10.4	0.29
3 Years <sup>3</sup>		62.5	66.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	8	87.5	94.0				8	8.0	1.0	87.5	94.0	-6.5	0.44
1 Year	8	87.5	87.9				8	8.0	1.0	87.5	87.9	-0.4	0.98
Cond. <sup>3</sup> 3 Years	7	100.0	91.6				7	7.0	0.0	100.0	91.6	8.4	0.42
3 Years <sup>3</sup>		87.5	80.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Barnes-Jewish Hospital - Saint Louis MO**  
**Provider Number 260014 (MOBH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>8</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	12.5	727	22.6
	18-29	2	25.0	1265	39.3
	30-39	3	37.5	608	18.9
	40-49	2	25.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	7	87.5	2790	86.6
	Black	1	12.5	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	12.5	622	19.3
	30-39	2	25.0	1616	50.2
	40-49	5	62.5	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	7	87.5	2955	91.7
	Black	1	12.5	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	3	37.5	1059	32.9
	10-17	1	12.5	1440	44.7
	18-30	4	50.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	12.5	36	1.1
	10-19	3	37.5	876	27.2
	20-29	2	25.0	1725	53.5
	30-39	2	25.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	8	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	8	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	12.5	641	19.9
	9-13	4	50.0	1000	31.0
	14-18	2	25.0	867	26.9
	19-23	1	12.5	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	2	25.0	618	19.2
	4	1	12.5	933	29.0
	5	3	37.5	860	26.7
	6	2	25.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	4	50.0	393	12.2
	1990	4	50.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for John Cochran VA Hospital - Saint Louis MO  
Provider Number 26009F (MOCV)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	17	81.4	82.3				17	16	3	81.4	82.3	-0.9	0.92
1 Year	17	68.8	75.0				17	16	5	68.8	75.0	-6.2	0.56
Cond. <sup>3</sup> 3 Years	11	63.6	93.7				11	11	4	63.6	93.7	-30.1	<0.01*
3 Years <sup>3</sup>		43.8	70.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	17	94.1	93.3				17	17.0	1.0	94.1	93.3	0.8	0.89
1 Year	17	88.2	88.0				17	17.0	2.0	88.2	88.0	0.2	0.98
Cond. <sup>3</sup> 3 Years	15	93.3	91.8				15	14.0	1.0	93.3	91.8	1.5	0.83
3 Years <sup>3</sup>		82.4	80.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**John Cochran VA Hospital - Saint Louis MO**  
**Provider Number 26009F (MOCV)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>17</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	3	17.6	727	22.6
	18-29	8	47.1	1265	39.3
	30-39	5	29.4	608	18.9
	40-49	1	5.9	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	17	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	11.8	622	19.3
	30-39	11	64.7	1616	50.2
	40-49	4	23.5	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	16	94.1	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	1	5.9	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	6	35.3	1059	32.9
	10-17	9	52.9	1440	44.7
	18-30	2	11.8	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	2	11.8	876	27.2
	20-29	12	70.6	1725	53.5
	30-39	3	17.6	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	17	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	17	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	17	100.0	641	19.9
	9-13	0	0.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	3	17.6	265	8.2
	3	4	23.5	618	19.2
	4	4	23.5	933	29.0
	5	4	23.5	860	26.7
	6	1	5.9	388	12.0
	Not Reported	1	5.9	49	1.5
<b>Year of Transplant</b>	1988	7	41.2	232	7.2
	1989	7	41.2	393	12.2
	1990	3	17.6	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Saint Louis University Hospital - Saint Louis MO  
Provider Number 260105 (MOSL)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	21	85.7	84.9	23	60.9	85.8	44	44	12	72.7	85.4	-12.6	0.02*
1 Year	21	57.1	76.3	23	52.2	78.7	44	44	20	54.5	77.5	-23.0	<0.01*
Cond. <sup>3</sup> 3 Years	12	100.0	93.7				12	10	0	100.0	93.7	6.3	0.37
3 Years <sup>3</sup>		57.1	71.5										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	21	90.5	94.1	23	100.0	96.3	44	43.0	2.0	95.4	95.3	0.2	0.96
1 Year	21	90.5	89.9	23	100.0	91.8	44	40.0	2.0	95.2	90.8	4.4	0.31
Cond. <sup>3</sup> 3 Years	19	83.8	89.9				19	18.0	3.0	83.8	89.9	-6.1	0.37
3 Years <sup>3</sup>		75.8	80.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Saint Louis University Hospital - Saint Louis MO**  
**Provider Number 260105 (MOSL)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>44</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	4	9.1	727	22.6
	18-29	19	43.2	1265	39.3
	30-39	12	27.3	608	18.9
	40-49	8	18.2	450	14.0
	50+	1	2.3	172	5.3
<b>Donor Race</b>	White	39	88.6	2790	86.6
	Black	5	11.4	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	5	11.4	622	19.3
	30-39	31	70.5	1616	50.2
	40-49	6	13.6	873	27.1
	50+	2	4.5	107	3.3
<b>Recipient Race</b>	White	40	90.9	2955	91.7
	Black	2	4.5	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	2	4.5	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	13	29.5	1059	32.9
	10-17	20	45.5	1440	44.7
	18-30	7	15.9	611	19.0
	31+	4	9.1	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	2.3	36	1.1
	10-19	14	31.8	876	27.2
	20-29	23	52.3	1725	53.5
	30-39	6	13.6	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	44	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	44	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	38	86.4	641	19.9
	9-13	4	9.1	1000	31.0
	14-18	1	2.3	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	1	2.3	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	5	11.4	265	8.2
	3	7	15.9	618	19.2
	4	17	38.6	933	29.0
	5	11	25.0	860	26.7
	6	3	6.8	388	12.0
	Not Reported	1	2.3	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	6	13.6	517	16.0
	1991	11	25.0	522	16.2
	1992	11	25.0	548	17.0
	1993-1994	16	36.4	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Missouri Hospital & Clinic - Columbia MO  
Provider Number 260141 (MOUM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	3	33.3	83.8				3	3	2	33.3	83.8	-50.5	0.07
1 Year	3	0.0	70.2				3	3	3	0.0	70.2	-70.2	0.03*
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	3	100.0	94.5				3	3.0	0.0	100.0	94.5	5.5	1.00
1 Year	3	33.3	86.6				3	3.0	2.0	33.3	86.6	-53.2	0.05*
Cond. <sup>3</sup> 3 Years	1	100.0	95.2				1	1.0	0.0	100.0	95.2	4.8	1.00
3 Years <sup>3</sup>		33.3	82.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Missouri Hospital & Clinic - Columbia MO**  
**Provider Number 260141 (MOUM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>3</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	33.3	727	22.6
	18-29	1	33.3	1265	39.3
	30-39	1	33.3	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	3	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	33.3	622	19.3
	30-39	0	0.0	1616	50.2
	40-49	1	33.3	873	27.1
	50+	1	33.3	107	3.3
<b>Recipient Race</b>	White	3	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	0	0.0	1059	32.9
	10-17	2	66.7	1440	44.7
	18-30	0	0.0	611	19.0
	31+	1	33.3	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	2	66.7	876	27.2
	20-29	0	0.0	1725	53.5
	30-39	1	33.3	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	3	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	3	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	33.3	641	19.9
	9-13	1	33.3	1000	31.0
	14-18	1	33.3	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	2	66.7	933	29.0
	5	1	33.3	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	3	100.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for North Carolina Baptist Hospital - Winston-Salem NC  
Provider Number 340047 (NCBG)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	89.2	1	1	0	100.0	89.2	10.8	1.00
1 Year				1	100.0	84.5	1	1	0	100.0	84.5	15.5	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	96.6	1	1.0	0.0	100.0	96.6	3.4	1.00
1 Year				1	100.0	92.4	1	1.0	0.0	100.0	92.4	7.6	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**North Carolina Baptist Hospital - Winston-Salem NC**  
**Provider Number 340047 (NCBG)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	100.0	727	22.6
	18-29	0	0.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	1	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	1	100.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	1	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	0	0.0	1059	32.9
	10-17	0	0.0	1440	44.7
	18-30	1	100.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	100.0	876	27.2
	20-29	0	0.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	1	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	1	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	1	100.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	1	100.0	618	19.2
	4	0	0.0	933	29.0
	5	0	0.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	1	100.0	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Duke University Medical Center - Durham NC  
Provider Number 340030 (NCDU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	36	97.2	83.9	19	94.7	87.4	55	55	2	96.4	85.1	11.2	0.02*
1 Year	36	83.3	73.4	19	84.0	80.1	55	54	9	83.6	75.7	7.9	0.16
Cond. <sup>3</sup> 3 Years	30	93.1	93.6				30	28	2	93.1	93.6	-0.4	0.93
3 Years <sup>3</sup>		77.6	68.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	36	97.2	95.1	19	100.0	98.0	55	54.5	1.0	98.2	96.1	2.0	0.43
1 Year	36	94.3	90.5	19	94.5	93.8	55	50.5	3.0	94.4	91.6	2.8	0.46
Cond. <sup>3</sup> 3 Years	32	91.9	92.9				32	29.5	2.5	91.9	92.9	-1.0	0.82
3 Years <sup>3</sup>		86.7	84.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Duke University Medical Center - Durham NC**  
**Provider Number 340030 (NCDU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>55</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	19	34.5	727	22.6
	18-29	15	27.3	1265	39.3
	30-39	12	21.8	608	18.9
	40-49	6	10.9	450	14.0
	50+	3	5.5	172	5.3
<b>Donor Race</b>	White	51	92.7	2790	86.6
	Black	2	3.6	264	8.2
	Hispanic	1	1.8	131	4.1
	Asian	0	0.0	23	0.7
	Other	1	1.8	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	14	25.5	622	19.3
	30-39	24	43.6	1616	50.2
	40-49	15	27.3	873	27.1
	50+	2	3.6	107	3.3
<b>Recipient Race</b>	White	50	90.9	2955	91.7
	Black	4	7.3	153	4.7
	Hispanic	1	1.8	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	19	34.5	1059	32.9
	10-17	24	43.6	1440	44.7
	18-30	11	20.0	611	19.0
	31+	1	1.8	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	1.8	36	1.1
	10-19	13	23.6	876	27.2
	20-29	35	63.6	1725	53.5
	30-39	6	10.9	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	54	98.2	3096	96.1
	Yes	1	1.8	126	3.9
<b>Transplant Procedure</b>	SKP	53	96.4	2804	87.0
	PAK	1	1.8	204	6.3
	PTA	1	1.8	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	2	3.6	641	19.9
	9-13	16	29.1	1000	31.0
	14-18	23	41.8	867	26.9
	19-23	14	25.5	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	4	7.3	265	8.2
	3	11	20.0	618	19.2
	4	14	25.5	933	29.0
	5	18	32.7	860	26.7
	6	8	14.5	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	6	10.9	393	12.2
	1990	13	23.6	517	16.0
	1991	16	29.1	522	16.2
	1992	4	7.3	548	17.0
	1993-1994	16	29.1	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Durham VA Medical Center - Durham NC  
Provider Number 34012F (NCDV)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				2	100.0	85.0	2	2	0	100.0	85.0	15.0	1.00
1 Year				2	100.0	76.3	2	2	0	100.0	76.3	23.7	1.00
Cond. <sup>3</sup>													
3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				2	100.0	96.5	2	2.0	0.0	100.0	96.5	3.5	1.00
1 Year				2	100.0	91.6	2	2.0	0.0	100.0	91.6	8.4	1.00
Cond. <sup>3</sup>													
3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Durham VA Medical Center - Durham NC**  
**Provider Number 34012F (NCDV)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>2</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	0	0.0	727	22.6
	18-29	1	50.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	1	50.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	2	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	0	0.0	1616	50.2
	40-49	2	100.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	0	0.0	2955	91.7
	Black	2	100.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	0	0.0	1059	32.9
	10-17	0	0.0	1440	44.7
	18-30	2	100.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	0	0.0	876	27.2
	20-29	2	100.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	2	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	2	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	0	0.0	1000	31.0
	14-18	2	100.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	50.0	265	8.2
	3	0	0.0	618	19.2
	4	1	50.0	933	29.0
	5	0	0.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	2	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Pitt County Memorial Hospital - Greenville NC  
Provider Number 340040 (NCEC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	3	66.7	83.3				3	3	1	66.7	83.3	-16.7	0.42
1 Year	3	33.3	67.9				3	3	2	33.3	67.9	-34.5	0.24
Cond. <sup>3</sup> 3 Years	1	100.0	93.7				1	1	0	100.0	93.7	6.3	1.00
3 Years <sup>3</sup>		33.3	63.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	3	66.7	94.8				3	3.0	1.0	66.7	94.8	-28.1	0.15
1 Year	3	66.7	90.0				3	3.0	1.0	66.7	90.0	-23.3	0.27
Cond. <sup>3</sup> 3 Years	2	100.0	94.4				2	2.0	0.0	100.0	94.4	5.6	1.00
3 Years <sup>3</sup>		66.7	85.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Pitt County Memorial Hospital - Greenville NC**  
**Provider Number 340040 (NCEC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>3</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	33.3	727	22.6
	18-29	2	66.7	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	3	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	3	100.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	3	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	1	33.3	1059	32.9
	10-17	1	33.3	1440	44.7
	18-30	1	33.3	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	2	66.7	876	27.2
	20-29	1	33.3	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	3	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	2	66.7	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	1	33.3	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	33.3	641	19.9
	9-13	1	33.3	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	1	33.3	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	1	33.3	933	29.0
	5	2	66.7	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	1	33.3	393	12.2
	1990	2	66.7	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of North Carolina Hospitals - Chapel Hill NC  
Provider Number 340061 (NCMH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	88.2	1	1	0	100.0	88.2	11.8	1.00
1 Year				1	100.0	81.6	1	1	0	100.0	81.6	18.4	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	98.3	1	1.0	0.0	100.0	98.3	1.7	1.00
1 Year				1	100.0	94.1	1	1.0	0.0	100.0	94.1	5.9	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of North Carolina Hospitals - Chapel Hill NC**  
**Provider Number 340061 (NCMH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	0	0.0	727	22.6
	18-29	1	100.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	1	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	1	100.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	1	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	0	0.0	1059	32.9
	10-17	1	100.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	100.0	876	27.2
	20-29	0	0.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	1	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	1	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	0	0.0	1000	31.0
	14-18	1	100.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	0	0.0	933	29.0
	5	0	0.0	860	26.7
	6	1	100.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	1	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Bishop Clarkson Memorial Hospital - Omaha NE  
Provider Number 280088 (NECM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	81	93.8	84.8	51	88.2	83.5	132	132	11	91.7	84.3	7.4	0.02*
1 Year	81	87.7	73.9	51	80.3	68.9	132	131	20	84.8	72.0	12.9	<0.01*
Cond. <sup>3</sup> 3 Years	71	94.3	91.6				71	69	4	94.3	91.6	2.6	0.39
3 Years <sup>3</sup>		82.6	67.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	80	98.7	96.0	49	96.8	97.6	128	126.0	2.5	98.0	96.6	1.4	0.36
1 Year	80	96.2	91.5	49	94.6	92.1	128	124.0	5.5	95.6	91.7	3.9	0.10
Cond. <sup>3</sup> 3 Years	77	97.3	93.1				77	71.0	2.0	97.3	93.1	4.2	0.14
3 Years <sup>3</sup>		93.6	85.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Bishop Clarkson Memorial Hospital - Omaha NE**  
**Provider Number 280088 (NECM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>132</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	38	28.8	727	22.6
	18-29	51	38.6	1265	39.3
	30-39	19	14.4	608	18.9
	40-49	14	10.6	450	14.0
	50+	10	7.6	172	5.3
<b>Donor Race</b>	White	125	94.7	2790	86.6
	Black	4	3.0	264	8.2
	Hispanic	3	2.3	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	20	15.2	622	19.3
	30-39	68	51.5	1616	50.2
	40-49	40	30.3	873	27.1
	50+	4	3.0	107	3.3
<b>Recipient Race</b>	White	128	97.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	4	3.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	46	34.8	1059	32.9
	10-17	60	45.5	1440	44.7
	18-30	26	19.7	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	33	25.0	876	27.2
	20-29	73	55.3	1725	53.5
	30-39	20	15.2	490	15.2
	40+	6	4.5	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	126	95.5	3096	96.1
	Yes	6	4.5	126	3.9
<b>Transplant Procedure</b>	SKP	99	75.0	2804	87.0
	PAK	7	5.3	204	6.3
	PTA	26	19.7	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	2	1.5	641	19.9
	9-13	26	19.7	1000	31.0
	14-18	65	49.2	867	26.9
	19-23	35	26.5	509	15.8
	24+	4	3.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	5	3.8	74	2.3
	2	11	8.3	265	8.2
	3	35	26.5	618	19.2
	4	39	29.5	933	29.0
	5	31	23.5	860	26.7
	6	11	8.3	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	11	8.3	393	12.2
	1990	21	15.9	517	16.0
	1991	41	31.1	522	16.2
	1992	29	22.0	548	17.0
	1993-1994	30	22.7	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Nebraska Medical Center - Omaha NE  
Provider Number 280013 (NEUN)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				10	90.0	80.8	10	10	1	90.0	80.8	9.2	0.45
1 Year				10	70.0	57.3	10	10	3	70.0	57.3	12.7	0.40
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				9	100.0	98.3	9	9.0	0.0	100.0	98.3	1.7	0.69
1 Year				9	100.0	93.1	9	9.0	0.0	100.0	93.1	6.9	0.41
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Nebraska Medical Center - Omaha NE**  
**Provider Number 280013 (NEUN)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>10</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	5	50.0	727	22.6
	18-29	2	20.0	1265	39.3
	30-39	1	10.0	608	18.9
	40-49	2	20.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	10	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	10.0	622	19.3
	30-39	6	60.0	1616	50.2
	40-49	3	30.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	10	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	2	20.0	1059	32.9
	10-17	7	70.0	1440	44.7
	18-30	1	10.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	2	20.0	876	27.2
	20-29	5	50.0	1725	53.5
	30-39	3	30.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	8	80.0	3096	96.1
	Yes	2	20.0	126	3.9
<b>Transplant Procedure</b>	SKP	0	0.0	2804	87.0
	PAK	3	30.0	204	6.3
	PTA	7	70.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	2	20.0	1000	31.0
	14-18	5	50.0	867	26.9
	19-23	3	30.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	1	10.0	74	2.3
	2	4	40.0	265	8.2
	3	3	30.0	618	19.2
	4	2	20.0	933	29.0
	5	0	0.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	10	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Barnabas Medical Center - Livingston NJ  
Provider Number 310076 (NJSB)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	2	0.0	88.8	2	50.0	89.2	4	4	3	25.0	89.0	-64.0	<0.01*
1 Year	2	0.0	82.9	2	0.0	83.9	4	4	4	0.0	83.4	-83.4	<0.01*
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	2	100.0	96.9	2	100.0	97.4	4	4.0	0.0	100.0	97.1	2.9	1.00
1 Year	2	100.0	90.6	2	50.0	92.7	4	3.0	1.0	73.8	91.7	-17.9	0.28
Cond. <sup>3</sup> 3 Years	1	0.0	88.8				1	1.0	1.0	0.0	88.8	-88.8	0.11
3 Years <sup>3</sup>		0.0	80.4										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Barnabas Medical Center - Livingston NJ**  
**Provider Number 310076 (NJSB)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>4</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	4	100.0	727	22.6
	18-29	0	0.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	2	50.0	2790	86.6
	Black	2	50.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	25.0	622	19.3
	30-39	1	25.0	1616	50.2
	40-49	2	50.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	3	75.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	1	25.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	2	50.0	1059	32.9
	10-17	1	25.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	1	25.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	25.0	876	27.2
	20-29	2	50.0	1725	53.5
	30-39	1	25.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	4	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	4	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	1	25.0	1000	31.0
	14-18	1	25.0	867	26.9
	19-23	2	50.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	25.0	265	8.2
	3	1	25.0	618	19.2
	4	1	25.0	933	29.0
	5	1	25.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	4	100.0	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University Medical Center of Southern Nevada - Las Vegas NV  
Provider Number 290007 (NVUM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	76.7	1	1	0	100.0	76.7	23.3	1.00
1 Year				1	0.0	65.5	1	1	1	0.0	65.5	-65.5	0.34
Cond. <sup>3</sup>													
3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	98.1	1	1.0	0.0	100.0	98.1	1.9	1.00
1 Year				1	100.0	94.1	1	1.0	0.0	100.0	94.1	5.9	1.00
Cond. <sup>3</sup>													
3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University Medical Center of Southern Nevada - Las Vegas NV**  
**Provider Number 290007 (NVUM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	0	0.0	727	22.6
	18-29	0	0.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	1	100.0	172	5.3
<b>Donor Race</b>	White	1	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	100.0	622	19.3
	30-39	0	0.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	1	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	1	100.0	1059	32.9
	10-17	0	0.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	0	0.0	876	27.2
	20-29	1	100.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	1	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	1	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	100.0	641	19.9
	9-13	0	0.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	1	100.0	618	19.2
	4	0	0.0	933	29.0
	5	0	0.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	1	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: University Medical Center of Southern Nevada  
1800 W. Charleston Boulevard, Las Vegas, NV 89102  
Provider Number 290007 (NVUM)**

May 1, 1997

University medical Center is pleased that the UNOS survival statistics reflect our commitment to quality transplant patient care. While no purely statistical analysis should ever be the sole measure of a transplant program's quality, the UNOS data helps demonstrate the success of University Medical Center's fledgling pancreas transplant program. We performed our first pancreas transplant 1993-94.

The data report on a single case. This patient tolerated the transplant procedure yet lost the pancreas and kidney to rejection later in the year.

We believe our pancreas program can achieve excellent results by our close attention to patient care details. Our multidisciplinary approach engenders the close cooperation of our medical and surgical specialists with other specialists for the patients overall benefit.

Jose U. Zamora, II, M.D.  
Director, Transplantation Services





## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Albany Medical Center Hospital - Albany NY  
Provider Number 330013 (NYAM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	88.6	1	1	0	100.0	88.6	11.4	1.00
1 Year				1	100.0	81.8	1	1	0	100.0	81.8	18.2	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	98.2	1	1.0	0.0	100.0	98.2	1.8	1.00
1 Year				1	100.0	94.3	1	1.0	0.0	100.0	94.3	5.7	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Albany Medical Center Hospital - Albany NY**  
**Provider Number 330013 (NYAM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	0	0.0	727	22.6
	18-29	1	100.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	1	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	100.0	622	19.3
	30-39	0	0.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	1	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	1	100.0	1059	32.9
	10-17	0	0.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	0	0.0	876	27.2
	20-29	1	100.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	1	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	1	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	1	100.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	0	0.0	933	29.0
	5	1	100.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	1	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for SUNY Health Science Center - Brooklyn NY  
Provider Number 330350 (NYDS)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	1	100.0	88.7	3	100.0	88.1	4	4	0	100.0	88.2	11.8	1.00
1 Year	1	100.0	83.5	3	100.0	80.3	4	4	0	100.0	81.1	18.9	0.60
Cond. <sup>3</sup> 3 Years	1	100.0	93.7				1	1	0	100.0	93.7	6.3	1.00
3 Years <sup>3</sup>		100.0	78.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	1	100.0	96.1	3	100.0	98.0	4	4.0	0.0	100.0	97.5	2.5	1.00
1 Year	1	100.0	90.2	3	100.0	91.7	4	4.0	0.0	100.0	91.3	8.7	1.00
Cond. <sup>3</sup> 3 Years	1	100.0	90.1				1	1.0	0.0	100.0	90.1	9.9	1.00
3 Years <sup>3</sup>		100.0	81.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**SUNY Health Science Center - Brooklyn NY**  
**Provider Number 330350 (NYDS)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>4</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	25.0	727	22.6
	18-29	3	75.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	1	25.0	2790	86.6
	Black	3	75.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	1	25.0	1616	50.2
	40-49	3	75.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	4	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	1	25.0	1059	32.9
	10-17	1	25.0	1440	44.7
	18-30	1	25.0	611	19.0
	31+	1	25.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	25.0	876	27.2
	20-29	2	50.0	1725	53.5
	30-39	1	25.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	4	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	4	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	25.0	641	19.9
	9-13	2	50.0	1000	31.0
	14-18	1	25.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	2	50.0	933	29.0
	5	1	25.0	860	26.7
	6	1	25.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	1	25.0	548	17.0
	1993-1994	3	75.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Strong Memorial Hospital - Rochester NY  
Provider Number 330285 (NYFL)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				9	100.0	85.1	9	9	0	100.0	85.1	14.9	0.21
1 Year				9	100.0	76.7	9	8	0	100.0	76.7	23.3	0.10
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				9	100.0	97.1	9	9.0	0.0	100.0	97.1	2.9	0.60
1 Year				9	100.0	90.9	9	8.0	0.0	100.0	90.9	9.1	0.35
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Strong Memorial Hospital - Rochester NY**  
**Provider Number 330285 (NYFL)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>9</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	11.1	727	22.6
	18-29	3	33.3	1265	39.3
	30-39	2	22.2	608	18.9
	40-49	2	22.2	450	14.0
	50+	1	11.1	172	5.3
<b>Donor Race</b>	White	8	88.9	2790	86.6
	Black	1	11.1	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	22.2	622	19.3
	30-39	2	22.2	1616	50.2
	40-49	4	44.4	873	27.1
	50+	1	11.1	107	3.3
<b>Recipient Race</b>	White	8	88.9	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	1	11.1	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	2	22.2	1059	32.9
	10-17	5	55.6	1440	44.7
	18-30	2	22.2	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
Years Between Diabetes Onset and Transplant	1-9	0	0.0	36	1.1
	10-19	2	22.2	876	27.2
	20-29	6	66.7	1725	53.5
	30-39	1	11.1	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
Previous Pancreas Transplant	No	9	100.0	3096	96.1
	Yes	0	0.0	126	3.9
Transplant Procedure	SKP	9	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
Cold Ischemia Time (Hours)	0-8	2	22.2	641	19.9
	9-13	7	77.8	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
Level of Mismatch	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	2	22.2	618	19.2
	4	4	44.4	933	29.0
	5	2	22.2	860	26.7
	6	1	11.1	388	12.0
	Not Reported	0	0.0	49	1.5
Year of Transplant	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	2	22.2	548	17.0
	1993-1994	7	77.8	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Montefiore Medical Center - Bronx NY  
Provider Number 330059 (NYMA)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	3	0.0	85.5	1	0.0	88.0	4	4	4	0.0	86.1	-86.1	<0.01*
1 Year	3	0.0	78.8	1	0.0	81.2	4	4	4	0.0	79.4	-79.4	<0.01*
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	3	66.7	94.4	1	100.0	98.0	4	4.0	1.0	75.0	95.3	-20.3	0.18
1 Year	3	33.3	90.5	1	100.0	93.8	4	4.0	2.0	50.0	91.4	-41.4	0.04*
Cond. <sup>3</sup> 3 Years	1	0.0	93.8				1	1.0	1.0	0.0	93.8	-93.8	0.06
3 Years <sup>3</sup>		0.0	84.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Montefiore Medical Center - Bronx NY**  
**Provider Number 330059 (NYMA)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>4</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	25.0	727	22.6
	18-29	2	50.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	1	25.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	1	25.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	3	75.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	4	100.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	3	75.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	1	25.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	2	50.0	1059	32.9
	10-17	1	25.0	1440	44.7
	18-30	1	25.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	1	25.0	876	27.2
	20-29	2	50.0	1725	53.5
	30-39	1	25.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	4	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	4	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	3	75.0	641	19.9
	9-13	1	25.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	2	50.0	933	29.0
	5	1	25.0	860	26.7
	6	1	25.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	1	25.0	393	12.2
	1990	0	0.0	517	16.0
	1991	1	25.0	522	16.2
	1992	1	25.0	548	17.0
	1993-1994	1	25.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for New York University Medical Center - New York NY  
Provider Number 330214 (NYUC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	81.3	1	1	0	100.0	81.3	18.7	1.00
1 Year				1	100.0	73.7	1	1	0	100.0	73.7	26.3	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				1	100.0	94.4	1	1.0	0.0	100.0	94.4	5.6	1.00
1 Year				1	100.0	86.6	1	1.0	0.0	100.0	86.6	13.4	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**New York University Medical Center - New York NY**  
**Provider Number 330214 (NYUC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	0	0.0	727	22.6
	18-29	0	0.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	1	100.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	0	0.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	1	100.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	0	0.0	1616	50.2
	40-49	1	100.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	1	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	1	100.0	1059	32.9
	10-17	0	0.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	0	0.0	876	27.2
	20-29	0	0.0	1725	53.5
	30-39	1	100.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	1	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	1	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	1	100.0	641	19.9
	9-13	0	0.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	0	0.0	933	29.0
	5	1	100.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	1	100.0	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Cleveland Clinic Foundation - Cleveland OH  
Provider Number 360180 (OHCC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	12	50.0	70.6				12	12	6	50.0	70.6	-20.6	0.09
1 Year	12	41.7	60.6				12	12	7	41.7	60.6	-18.9	0.15
Cond. <sup>3</sup> 3 Years	5	79.0	85.2				5	4	1	79.0	85.2	-6.2	0.87
3 Years <sup>3</sup>		32.9	51.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	12	100.0	92.7				12	12.0	0.0	100.0	92.7	7.3	0.32
1 Year	12	91.7	87.4				12	12.0	1.0	91.7	87.4	4.3	0.65
Cond. <sup>3</sup> 3 Years	11	90.9	89.9				11	11.0	1.0	90.9	89.9	1.0	0.91
3 Years <sup>3</sup>		83.3	78.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Cleveland Clinic Foundation - Cleveland OH**  
**Provider Number 360180 (OHCC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>12</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	0	0.0	727	22.6
	18-29	5	41.7	1265	39.3
	30-39	3	25.0	608	18.9
	40-49	2	16.7	450	14.0
	50+	2	16.7	172	5.3
<b>Donor Race</b>	White	11	91.7	2790	86.6
	Black	1	8.3	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	8.3	622	19.3
	30-39	7	58.3	1616	50.2
	40-49	3	25.0	873	27.1
	50+	1	8.3	107	3.3
<b>Recipient Race</b>	White	11	91.7	2955	91.7
	Black	1	8.3	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	4	33.3	1059	32.9
	10-17	4	33.3	1440	44.7
	18-30	4	33.3	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	3	25.0	876	27.2
	20-29	7	58.3	1725	53.5
	30-39	2	16.7	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	12	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	6	50.0	2804	87.0
	PAK	6	50.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	7	58.3	641	19.9
	9-13	4	33.3	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	1	8.3	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	2	16.7	618	19.2
	4	3	25.0	933	29.0
	5	7	58.3	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	5	41.7	232	7.2
	1989	6	50.0	393	12.2
	1990	1	8.3	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: The Cleveland Clinic Foundation  
9500 Euclid Avenue, Cleveland, OH 44195  
Provider Number 360180 (OHCC)**

May 3, 1997

The Cleveland Clinic Foundation developed a program in pancreas transplantation in 1987. During this time several segmental pancreas transplants as well as solitary pancreas transplants were attempted. These published graft survival rates reflect the early experimental phase of this experience. It is to be noted that the patient survival rates are above expectations.

The program was voluntarily placed on hold from the years 1992 to 1994. A new surgeon was recruited in 1993 and the program was reactivated late that same year. In late summer 1994, the program performed its first kidney/pancreas transplant in the new era. Unfortunately the data from late 1994 to the present is not included in the current UNOS report.

The Cleveland Clinic Foundation has performed 20 pancreas transplants since 1994. The results equal or surpass any other published results.

The Cleveland Clinic Foundation will continue to provide outstanding care for transplant patients of all types. The pancreas transplant program has met stringent membership criteria in order to become a member of UNOS.

James T. Mayes, M.D.  
Director  
Kidney/Pancreas Transplantation





## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Ohio State University Hospitals - Columbus OH  
Provider Number 360085 (OHOU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	155	91.0	83.6	112	90.2	85.6	267	267	25	90.6	84.4	6.2	<0.01*
1 Year	155	79.4	73.9	112	74.8	76.7	267	264	60	77.5	75.1	2.4	0.34
Cond. <sup>3</sup> 3 Years	123	93.2	92.9				123	115	8	93.2	92.9	0.4	0.87
3 Years <sup>3</sup>		74.0	68.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	154	95.4	94.6	112	96.4	97.2	265	263.5	11.0	95.8	95.7	0.1	0.91
1 Year	154	93.5	90.2	112	90.6	91.9	265	251.5	20.0	92.3	90.9	1.4	0.39
Cond. <sup>3</sup> 3 Years	143	93.5	91.3				143	133.0	9.0	93.5	91.3	2.2	0.33
3 Years <sup>3</sup>		87.4	82.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Ohio State University Hospitals - Columbus OH**  
**Provider Number 360085 (OHOU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>267</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	60	22.5	727	22.6
	18-29	96	36.0	1265	39.3
	30-39	52	19.5	608	18.9
	40-49	46	17.2	450	14.0
	50+	13	4.9	172	5.3
<b>Donor Race</b>	White	232	86.9	2790	86.6
	Black	31	11.6	264	8.2
	Hispanic	2	0.7	131	4.1
	Asian	1	0.4	23	0.7
	Other	1	0.4	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	63	23.6	622	19.3
	30-39	117	43.8	1616	50.2
	40-49	81	30.3	873	27.1
	50+	6	2.2	107	3.3
<b>Recipient Race</b>	White	254	95.1	2955	91.7
	Black	13	4.9	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	82	30.7	1059	32.9
	10-17	113	42.3	1440	44.7
	18-30	58	21.7	611	19.0
	31+	3	1.1	59	1.8
	Not Reported	11	4.1	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	4	1.5	36	1.1
	10-19	75	28.1	876	27.2
	20-29	131	49.1	1725	53.5
	30-39	44	16.5	490	15.2
	40+	2	0.7	42	1.3
	Not Reported	11	4.1	53	1.6
<b>Previous Pancreas Transplant</b>	No	264	98.9	3096	96.1
	Yes	3	1.1	126	3.9
<b>Transplant Procedure</b>	SKP	248	92.9	2804	87.0
	PAK	6	2.2	204	6.3
	PTA	13	4.9	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	95	35.6	641	19.9
	9-13	97	36.3	1000	31.0
	14-18	57	21.3	867	26.9
	19-23	12	4.5	509	15.8
	24+	1	0.4	164	5.1
	Not Reported	5	1.9	41	1.3
<b>Level of Mismatch</b>	0	2	0.7	35	1.1
	1	2	0.7	74	2.3
	2	4	1.5	265	8.2
	3	34	12.7	618	19.2
	4	80	30.0	933	29.0
	5	90	33.7	860	26.7
	6	44	16.5	388	12.0
	Not Reported	11	4.1	49	1.5
<b>Year of Transplant</b>	1988	9	3.4	232	7.2
	1989	33	12.4	393	12.2
	1990	45	16.9	517	16.0
	1991	46	17.2	522	16.2
	1992	53	19.9	548	17.0
	1993-1994	81	30.3	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Cincinnati Medical Center - Cincinnati OH  
Provider Number 360003 (OHUC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	21	76.2	82.1	30	83.3	86.1	51	51	10	80.4	84.5	-4.1	0.41
1 Year	21	61.9	71.3	30	76.7	78.6	51	51	15	70.6	75.6	-5.0	0.39
Cond. <sup>3</sup> 3 Years	13	84.3	92.4				13	12	2	84.3	92.4	-8.0	0.27
3 Years <sup>3</sup>		52.2	65.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	20	94.9	95.0	30	100.0	97.3	49	49.0	1.0	98.0	96.4	1.6	0.55
1 Year	20	89.7	91.4	30	96.5	92.0	49	47.0	3.0	93.8	91.8	2.0	0.61
Cond. <sup>3</sup> 3 Years	18	83.3	92.9				18	18.0	3.0	83.3	92.9	-9.5	0.11
3 Years <sup>3</sup>		74.8	84.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Cincinnati Medical Center - Cincinnati OH**  
**Provider Number 360003 (OHUC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>51</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	12	23.5	727	22.6
	18-29	17	33.3	1265	39.3
	30-39	12	23.5	608	18.9
	40-49	7	13.7	450	14.0
	50+	3	5.9	172	5.3
<b>Donor Race</b>	White	48	94.1	2790	86.6
	Black	3	5.9	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	12	23.5	622	19.3
	30-39	24	47.1	1616	50.2
	40-49	15	29.4	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	47	92.2	2955	91.7
	Black	4	7.8	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	17	33.3	1059	32.9
	10-17	28	54.9	1440	44.7
	18-30	6	11.8	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	17	33.3	876	27.2
	20-29	23	45.1	1725	53.5
	30-39	11	21.6	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	49	96.1	3096	96.1
	Yes	2	3.9	126	3.9
<b>Transplant Procedure</b>	SKP	47	92.2	2804	87.0
	PAK	3	5.9	204	6.3
	PTA	1	2.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	7	13.7	641	19.9
	9-13	24	47.1	1000	31.0
	14-18	12	23.5	867	26.9
	19-23	6	11.8	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	2	3.9	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	2	3.9	265	8.2
	3	9	17.6	618	19.2
	4	19	37.3	933	29.0
	5	19	37.3	860	26.7
	6	2	3.9	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	1	2.0	232	7.2
	1989	2	3.9	393	12.2
	1990	6	11.8	517	16.0
	1991	10	19.6	522	16.2
	1992	10	19.6	548	17.0
	1993-1994	22	43.1	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University Hospitals - Cleveland OH  
Provider Number 360137 (OHUH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	43	86.0	82.2	31	87.1	86.4	74	74	10	86.5	84.0	2.5	0.55
1 Year	43	76.7	73.8	31	80.6	79.3	74	74	16	78.4	76.1	2.3	0.64
Cond. <sup>3</sup> 3 Years	33	96.9	93.7				33	31	1	96.9	93.7	3.2	0.45
3 Years <sup>3</sup>		74.4	69.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	43	100.0	94.2	31	93.5	97.3	74	74.0	2.0	97.3	95.5	1.8	0.45
1 Year	43	95.3	89.7	31	87.1	92.1	74	74.0	6.0	91.9	90.8	1.1	0.73
Cond. <sup>3</sup> 3 Years	41	82.9	91.7				41	41.0	7.0	82.9	91.7	-8.7	0.04*
3 Years <sup>3</sup>		79.1	82.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University Hospitals - Cleveland OH**  
**Provider Number 360137 (OHUH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>74</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	11	14.9	727	22.6
	18-29	30	40.5	1265	39.3
	30-39	17	23.0	608	18.9
	40-49	13	17.6	450	14.0
	50+	3	4.1	172	5.3
<b>Donor Race</b>	White	66	89.2	2790	86.6
	Black	7	9.5	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	1	1.4	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	15	20.3	622	19.3
	30-39	39	52.7	1616	50.2
	40-49	19	25.7	873	27.1
	50+	1	1.4	107	3.3
<b>Recipient Race</b>	White	68	91.9	2955	91.7
	Black	6	8.1	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	21	28.4	1059	32.9
	10-17	38	51.4	1440	44.7
	18-30	13	17.6	611	19.0
	31+	2	2.7	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	21	28.4	876	27.2
	20-29	44	59.5	1725	53.5
	30-39	9	12.2	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	73	98.6	3096	96.1
	Yes	1	1.4	126	3.9
<b>Transplant Procedure</b>	SKP	73	98.6	2804	87.0
	PAK	1	1.4	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	21	28.4	641	19.9
	9-13	19	25.7	1000	31.0
	14-18	17	23.0	867	26.9
	19-23	12	16.2	509	15.8
	24+	5	6.8	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	2	2.7	265	8.2
	3	11	14.9	618	19.2
	4	20	27.0	933	29.0
	5	27	36.5	860	26.7
	6	14	18.9	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	9	12.2	232	7.2
	1989	9	12.2	393	12.2
	1990	11	14.9	517	16.0
	1991	9	12.2	522	16.2
	1992	15	20.3	548	17.0
	1993-1994	21	28.4	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Oregon Health Sciences University Hospital - Portland OR  
Provider Number 380009 (ORUO)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	17	64.7	80.2	8	62.5	87.3	25	25	9	64.0	82.5	-18.5	0.01*
1 Year	17	64.7	66.3	8	62.5	80.3	25	25	9	64.0	70.8	-6.8	0.43
Cond. <sup>3</sup> 3 Years	11	72.7	89.5				11	11	3	72.7	89.5	-16.8	0.05
3 Years <sup>3</sup>		47.1	59.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	15	93.3	93.8	8	87.5	98.2	23	23.0	2.0	91.3	95.3	-4.0	0.35
1 Year	15	93.3	88.7	8	87.5	93.2	23	22.0	2.0	91.3	90.2	1.1	0.86
Cond. <sup>3</sup> 3 Years	14	88.9	91.7				14	13.0	1.5	88.9	91.7	-2.8	0.71
3 Years <sup>3</sup>		83.0	81.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Oregon Health Sciences University Hospital - Portland OR**  
**Provider Number 380009 (ORUO)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>25</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	4	16.0	727	22.6
	18-29	9	36.0	1265	39.3
	30-39	8	32.0	608	18.9
	40-49	3	12.0	450	14.0
	50+	1	4.0	172	5.3
<b>Donor Race</b>	White	24	96.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	1	4.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	3	12.0	622	19.3
	30-39	10	40.0	1616	50.2
	40-49	12	48.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	24	96.0	2955	91.7
	Black	1	4.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	8	32.0	1059	32.9
	10-17	12	48.0	1440	44.7
	18-30	4	16.0	611	19.0
	31+	1	4.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	4	16.0	876	27.2
	20-29	14	56.0	1725	53.5
	30-39	7	28.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	22	88.0	3096	96.1
	Yes	3	12.0	126	3.9
<b>Transplant Procedure</b>	SKP	22	88.0	2804	87.0
	PAK	3	12.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	6	24.0	641	19.9
	9-13	4	16.0	1000	31.0
	14-18	3	12.0	867	26.9
	19-23	6	24.0	509	15.8
	24+	1	4.0	164	5.1
	Not Reported	5	20.0	41	1.3
<b>Level of Mismatch</b>	0	1	4.0	35	1.1
	1	0	0.0	74	2.3
	2	5	20.0	265	8.2
	3	3	12.0	618	19.2
	4	9	36.0	933	29.0
	5	6	24.0	860	26.7
	6	1	4.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	7	28.0	393	12.2
	1990	8	32.0	517	16.0
	1991	2	8.0	522	16.2
	1992	1	4.0	548	17.0
	1993-1994	7	28.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Albert Einstein Medical Center - Philadelphia PA  
Provider Number 390142 (PAAE)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	46	89.1	82.1	22	72.7	86.8	68	68	11	83.8	83.6	0.2	0.96
1 Year	46	71.7	71.0	22	72.7	78.4	68	68	19	72.1	73.4	-1.3	0.80
Cond. <sup>3</sup> 3 Years	33	84.8	90.0				33	33	5	84.8	90.0	-5.2	0.29
3 Years <sup>3</sup>		60.9	63.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	46	93.4	93.9	21	95.2	96.9	67	66.5	4.0	94.0	94.9	-0.9	0.74
1 Year	46	89.0	89.9	21	95.2	91.3	67	65.5	6.0	91.0	90.3	0.7	0.85
Cond. <sup>3</sup> 3 Years	41	95.0	91.5				41	39.0	2.0	95.0	91.5	3.5	0.41
3 Years <sup>3</sup>		84.6	82.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Albert Einstein Medical Center - Philadelphia PA**  
**Provider Number 390142 (PAAE)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>68</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	13	19.1	727	22.6
	18-29	37	54.4	1265	39.3
	30-39	12	17.6	608	18.9
	40-49	6	8.8	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	57	83.8	2790	86.6
	Black	10	14.7	264	8.2
	Hispanic	1	1.5	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	18	26.5	622	19.3
	30-39	27	39.7	1616	50.2
	40-49	17	25.0	873	27.1
	50+	6	8.8	107	3.3
<b>Recipient Race</b>	White	59	86.8	2955	91.7
	Black	5	7.4	153	4.7
	Hispanic	2	2.9	63	2.0
	Asian	1	1.5	9	0.3
	Other	1	1.5	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	34	50.0	1059	32.9
	10-17	22	32.4	1440	44.7
	18-30	10	14.7	611	19.0
	31+	1	1.5	59	1.8
	Not Reported	1	1.5	53	1.6



		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	19	27.9	876	27.2
	20-29	32	47.1	1725	53.5
	30-39	14	20.6	490	15.2
	40+	2	2.9	42	1.3
	Not Reported	1	1.5	53	1.6
<b>Previous Pancreas Transplant</b>	No	66	97.1	3096	96.1
	Yes	2	2.9	126	3.9
<b>Transplant Procedure</b>	SKP	59	86.8	2804	87.0
	PAK	5	7.4	204	6.3
	PTA	4	5.9	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	23	33.8	641	19.9
	9-13	34	50.0	1000	31.0
	14-18	10	14.7	867	26.9
	19-23	1	1.5	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	1	1.5	35	1.1
	1	0	0.0	74	2.3
	2	1	1.5	265	8.2
	3	10	14.7	618	19.2
	4	17	25.0	933	29.0
	5	29	42.6	860	26.7
	6	9	13.2	388	12.0
	Not Reported	1	1.5	49	1.5
<b>Year of Transplant</b>	1988	7	10.3	232	7.2
	1989	9	13.2	393	12.2
	1990	17	25.0	517	16.0
	1991	12	17.6	522	16.2
	1992	14	20.6	548	17.0
	1993-1994	9	13.2	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: Albert Einstein Medical Center  
5501 Old York Road, Philadelphia, PA 19141  
Provider Number 390142 (PAAE)**

May 8, 1997

Albert Einstein Medical Center's Pancreas Transplant Program continues to provide excellent patient care as reflected in the present report results.

Both our patient and graft survival at one year have improved from Era 1 to Era 2. The decrease in 3 month graft survival in Era 2 is the reflection of the change in immunosuppression at our program in August of 1992. At that time, Minnesota ALG was taken off the market and we went from quadruple induction therapy to triple therapy. At the end of 1994, we realized that our incidence of pancreatic graft loss due to irreversible acute rejection had gone from 11% to 25%, and, therefore, we reintroduced quadruple induction therapy with ATGAM and at the same time we began using some of the new immunosuppressive drugs (Prograf, Cellcept). Since that time, we have not lost any pancreas grafts to acute rejection and our actual patient and graft survival at one year for the period 1995-1996 is 100% and 85%.

We believe that our excellent patient and graft survivals are the result of the close cooperation of our integrated surgical and medical teams as well as the major commitment of the institution to the field of transplantation.

Francisco Badosa, M.D.  
Director, Kidney/Pancreas Transplant Program





## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Allegheny General Hospital - Pittsburgh PA  
Provider Number 390050 (PAAG)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	11	36.4	71.9	8	100.0	86.0	19	19	7	63.2	77.9	-14.7	0.11
1 Year	11	36.4	61.2	8	100.0	76.8	19	19	7	63.2	67.8	-4.6	0.65
Cond. <sup>3</sup> 3 Years	4	100.0	82.2				4	4	0	100.0	82.2	17.8	0.60
3 Years <sup>3</sup>		36.4	50.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	11	61.9	92.4	8	100.0	97.4	18	18.0	4.0	77.8	94.5	-16.7	<0.01*
1 Year	11	61.9	88.7	8	100.0	91.4	18	18.0	4.0	77.8	89.9	-12.1	0.09
Cond. <sup>3</sup> 3 Years	7	100.0	91.9				7	7.0	0.0	100.0	91.9	8.1	0.43
3 Years <sup>3</sup>		61.9	81.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Allegheny General Hospital - Pittsburgh PA**  
**Provider Number 390050 (PAAG)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>19</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	2	10.5	727	22.6
	18-29	7	36.8	1265	39.3
	30-39	7	36.8	608	18.9
	40-49	3	15.8	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	19	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	10.5	622	19.3
	30-39	10	52.6	1616	50.2
	40-49	7	36.8	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	14	73.7	2955	91.7
	Black	4	21.1	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	1	5.3	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	5	26.3	1059	32.9
	10-17	7	36.8	1440	44.7
	18-30	5	26.3	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	2	10.5	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	9	47.4	876	27.2
	20-29	6	31.6	1725	53.5
	30-39	2	10.5	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	2	10.5	53	1.6
<b>Previous Pancreas Transplant</b>	No	18	94.7	3096	96.1
	Yes	1	5.3	126	3.9
<b>Transplant Procedure</b>	SKP	12	63.2	2804	87.0
	PAK	6	31.6	204	6.3
	PTA	1	5.3	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	10	52.6	641	19.9
	9-13	7	36.8	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	2	10.5	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	4	21.1	265	8.2
	3	3	15.8	618	19.2
	4	7	36.8	933	29.0
	5	2	10.5	860	26.7
	6	2	10.5	388	12.0
	Not Reported	1	5.3	49	1.5
<b>Year of Transplant</b>	1988	6	31.6	232	7.2
	1989	0	0.0	393	12.2
	1990	2	10.5	517	16.0
	1991	2	10.5	522	16.2
	1992	1	5.3	548	17.0
	1993-1994	8	42.1	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: Allegheny General Hospital  
320 East North Avenue, Pittsburgh, PA 15212  
Provider Number 390050 (PAAG)**

May 6, 1997

Allegheny General Hospital is a 728 bed tertiary care institution and serves as the Western Pennsylvania campus of The Allegheny University of the Health Sciences. The pancreas transplant program was initiated in March 1988. While the program was initiated nine years ago, the volume of patients transplanted remained very low until the last two years. The statistics for the time period documented by UNOS are accurate, however, they do not reflect the high quality of patient care offered at Allegheny General Hospital.

As with any statistical analysis, the smaller the volume of patients involved, the greater the impact on the overall statistics when calculating patient and graft loss.

The effect of volume is obvious when looking at the overall graft and patient survival of the pancreas program in more recent years. For those patients transplanted in 1993 and 1994, our overall graft survival is 100% with a patient survival rate of 100%. Both statistics are well above the expected survival rates. In addition, volume and survival statistics for 1995 and 1996 remain above the expected level.

In summation, while the early statistics are accurate, they are somewhat skewed by the low volume of patients in this time period. Our more recent statistics are more indicative of the excellent quality of patient care offered.

However, statistical analysis should never be used as a sole measure of a transplant program's quality. Total patient care, with attention to both the emotional as well as the medical needs of the patient and family, is critical during all phases of evaluation, transplantation and follow-up. The multidisciplinary team at Allegheny General Hospital addresses and coordinates all aspects of the patient's care.

Dai Dao Nghiem, M.D.  
Transplant Program Director





## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Milton S. Hershey Medical Center - Hershey PA  
Provider Number 390256 (PAHE)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	14	92.9	86.2	8	87.5	88.6	22	22	2	90.9	87.1	3.8	0.59
1 Year	14	92.9	79.0	8	87.5	82.5	22	22	2	90.9	80.3	10.6	0.20
Cond. <sup>3</sup> 3 Years	13	100.0	93.7				13	13	0	100.0	93.7	6.3	0.35
3 Years <sup>3</sup>		92.9	74.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	14	100.0	95.2	8	100.0	97.2	22	22.0	0.0	100.0	96.0	4.0	0.33
1 Year	14	100.0	91.0	8	100.0	92.2	22	22.0	0.0	100.0	91.5	8.5	0.15
Cond. <sup>3</sup> 3 Years	14	100.0	92.6				14	14.0	0.0	100.0	92.6	7.4	0.28
3 Years <sup>3</sup>		100.0	84.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Milton S. Hershey Medical Center - Hershey PA**  
**Provider Number 390256 (PAHE)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>22</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	10	45.5	727	22.6
	18-29	9	40.9	1265	39.3
	30-39	2	9.1	608	18.9
	40-49	1	4.5	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	20	90.9	2790	86.6
	Black	2	9.1	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	5	22.7	622	19.3
	30-39	12	54.5	1616	50.2
	40-49	5	22.7	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	21	95.5	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	1	4.5	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	6	27.3	1059	32.9
	10-17	10	45.5	1440	44.7
	18-30	4	18.2	611	19.0
	31+	1	4.5	59	1.8
	Not Reported	1	4.5	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	4.5	36	1.1
	10-19	7	31.8	876	27.2
	20-29	9	40.9	1725	53.5
	30-39	4	18.2	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	1	4.5	53	1.6
<b>Previous Pancreas Transplant</b>	No	22	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	22	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	12	54.5	641	19.9
	9-13	9	40.9	1000	31.0
	14-18	1	4.5	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	6	27.3	933	29.0
	5	9	40.9	860	26.7
	6	7	31.8	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	2	9.1	232	7.2
	1989	2	9.1	393	12.2
	1990	2	9.1	517	16.0
	1991	7	31.8	522	16.2
	1992	5	22.7	548	17.0
	1993-1994	4	18.2	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Allegheny University Hospital - Center City - Philadelphia PA  
Provider Number 390051 (PAHM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				18	72.2	85.4	18	18	5	72.2	85.4	-13.2	0.11
1 Year				18	52.2	76.1	18	15	8	52.2	76.1	-23.9	0.02*
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				18	88.2	97.4	18	17.0	2.0	88.2	97.4	-9.1	0.02*
1 Year				18	79.8	92.8	18	11.5	3.0	79.8	92.8	-13.1	0.05*
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Allegheny University Hospital - Center City - Philadelphia PA**  
**Provider Number 390051 (PAHM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>18</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	7	38.9	727	22.6
	18-29	7	38.9	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	2	11.1	450	14.0
	50+	2	11.1	172	5.3
<b>Donor Race</b>	White	11	61.1	2790	86.6
	Black	6	33.3	264	8.2
	Hispanic	1	5.6	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	11.1	622	19.3
	30-39	8	44.4	1616	50.2
	40-49	8	44.4	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	12	66.7	2955	91.7
	Black	5	27.8	153	4.7
	Hispanic	1	5.6	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	6	33.3	1059	32.9
	10-17	7	38.9	1440	44.7
	18-30	5	27.8	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	3	16.7	876	27.2
	20-29	13	72.2	1725	53.5
	30-39	2	11.1	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	16	88.9	3096	96.1
	Yes	2	11.1	126	3.9
<b>Transplant Procedure</b>	SKP	15	83.3	2804	87.0
	PAK	2	11.1	204	6.3
	PTA	1	5.6	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	1	5.6	1000	31.0
	14-18	9	50.0	867	26.9
	19-23	4	22.2	509	15.8
	24+	4	22.2	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	5.6	265	8.2
	3	5	27.8	618	19.2
	4	4	22.2	933	29.0
	5	6	33.3	860	26.7
	6	2	11.1	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	9	50.0	548	17.0
	1993-1994	9	50.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Pittsburgh Medical Center - Pittsburgh PA  
Provider Number 390164 (PAPT)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	4	25.0	79.3				4	4	3	25.0	79.3	-54.3	0.03*
1 Year	4	25.0	68.8				4	4	3	25.0	68.8	-43.8	0.09
Cond. <sup>3</sup> 3 Years	1	100.0	67.2				1	1	0	100.0	67.2	32.8	1.00
3 Years <sup>3</sup>		25.0	46.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	4	75.0	95.4				4	4.0	1.0	75.0	95.4	-20.4	0.17
1 Year	4	75.0	90.9				4	4.0	1.0	75.0	90.9	-15.9	0.32
Cond. <sup>3</sup> 3 Years	3	100.0	95.0				3	3.0	0.0	100.0	95.0	5.0	1.00
3 Years <sup>3</sup>		75.0	86.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Pittsburgh Medical Center - Pittsburgh PA**  
**Provider Number 390164 (PAPT)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>4</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	25.0	727	22.6
	18-29	2	50.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	1	25.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	4	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	25.0	622	19.3
	30-39	3	75.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	4	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	1	25.0	1059	32.9
	10-17	2	50.0	1440	44.7
	18-30	1	25.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	3	75.0	876	27.2
	20-29	1	25.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	4	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	3	75.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	1	25.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	2	50.0	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	2	50.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	1	25.0	618	19.2
	4	1	25.0	933	29.0
	5	2	50.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	2	50.0	232	7.2
	1989	2	50.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	0	0.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Hospital of University of Pennsylvania - Philadelphia PA  
Provider Number 390111 (PAUP)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	46	69.6	81.8	22	81.8	87.3	68	68	18	73.5	83.6	-10.0	0.02*
1 Year	46	63.0	71.1	22	81.4	80.4	68	67	21	68.9	74.1	-5.2	0.31
Cond. <sup>3</sup> 3 Years	29	89.5	92.9				29	28	3	89.5	92.9	-3.4	0.46
3 Years <sup>3</sup>		56.4	66.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	44	97.6	95.2	22	95.5	97.3	66	63.5	2.0	96.9	95.9	1.0	0.69
1 Year	44	95.2	90.3	22	95.4	92.8	66	62.5	3.0	95.3	91.2	4.1	0.24
Cond. <sup>3</sup> 3 Years	39	97.3	93.0				39	35.5	1.0	97.3	93.0	4.4	0.29
3 Years <sup>3</sup>		92.6	84.0										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Hospital of University of Pennsylvania - Philadelphia PA**  
**Provider Number 390111 (PAUP)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>68</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	18	26.5	727	22.6
	18-29	28	41.2	1265	39.3
	30-39	14	20.6	608	18.9
	40-49	6	8.8	450	14.0
	50+	2	2.9	172	5.3
<b>Donor Race</b>	White	52	76.5	2790	86.6
	Black	13	19.1	264	8.2
	Hispanic	1	1.5	131	4.1
	Asian	1	1.5	23	0.7
	Other	1	1.5	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	16	23.5	622	19.3
	30-39	34	50.0	1616	50.2
	40-49	17	25.0	873	27.1
	50+	1	1.5	107	3.3
<b>Recipient Race</b>	White	59	86.8	2955	91.7
	Black	6	8.8	153	4.7
	Hispanic	3	4.4	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	19	27.9	1059	32.9
	10-17	25	36.8	1440	44.7
	18-30	17	25.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	7	10.3	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	1.5	36	1.1
	10-19	18	26.5	876	27.2
	20-29	33	48.5	1725	53.5
	30-39	9	13.2	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	7	10.3	53	1.6
<b>Previous Pancreas Transplant</b>	No	66	97.1	3096	96.1
	Yes	2	2.9	126	3.9
<b>Transplant Procedure</b>	SKP	61	89.7	2804	87.0
	PAK	4	5.9	204	6.3
	PTA	3	4.4	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	4	5.9	641	19.9
	9-13	22	32.4	1000	31.0
	14-18	27	39.7	867	26.9
	19-23	11	16.2	509	15.8
	24+	4	5.9	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	1	1.5	35	1.1
	1	0	0.0	74	2.3
	2	4	5.9	265	8.2
	3	7	10.3	618	19.2
	4	20	29.4	933	29.0
	5	24	35.3	860	26.7
	6	11	16.2	388	12.0
	Not Reported	1	1.5	49	1.5
<b>Year of Transplant</b>	1988	7	10.3	232	7.2
	1989	17	25.0	393	12.2
	1990	13	19.1	517	16.0
	1991	6	8.8	522	16.2
	1992	11	16.2	548	17.0
	1993-1994	14	20.6	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Medical University of South Carolina - Charleston SC  
Provider Number 420004 (SCMU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	12	66.7	87.0	9	88.9	85.0	21	21	5	76.2	86.2	-10.0	0.18
1 Year	12	66.7	80.4	9	88.9	74.6	21	21	5	76.2	77.9	-1.7	0.85
Cond. <sup>3</sup> 3 Years	8	100.0	93.7				8	6	0	100.0	93.7	6.3	0.52
3 Years <sup>3</sup>		66.7	75.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	12	100.0	94.1	9	100.0	97.5	21	21.0	0.0	100.0	95.6	4.4	0.31
1 Year	12	91.7	92.5	9	100.0	92.1	21	21.0	1.0	95.2	92.3	2.9	0.61
Cond. <sup>3</sup> 3 Years	11	80.1	91.6				11	9.0	2.0	80.1	91.6	-11.5	0.18
3 Years <sup>3</sup>		73.4	84.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Medical University of South Carolina - Charleston SC**  
**Provider Number 420004 (SCMU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>21</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	5	23.8	727	22.6
	18-29	10	47.6	1265	39.3
	30-39	3	14.3	608	18.9
	40-49	2	9.5	450	14.0
	50+	1	4.8	172	5.3
<b>Donor Race</b>	White	21	100.0	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	8	38.1	622	19.3
	30-39	8	38.1	1616	50.2
	40-49	3	14.3	873	27.1
	50+	2	9.5	107	3.3
<b>Recipient Race</b>	White	16	76.2	2955	91.7
	Black	5	23.8	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	5	23.8	1059	32.9
	10-17	13	61.9	1440	44.7
	18-30	2	9.5	611	19.0
	31+	1	4.8	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	11	52.4	876	27.2
	20-29	8	38.1	1725	53.5
	30-39	1	4.8	490	15.2
	40+	1	4.8	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	21	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	19	90.5	2804	87.0
	PAK	2	9.5	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	11	52.4	641	19.9
	9-13	10	47.6	1000	31.0
	14-18	0	0.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	1	4.8	74	2.3
	2	1	4.8	265	8.2
	3	7	33.3	618	19.2
	4	10	47.6	933	29.0
	5	1	4.8	860	26.7
	6	1	4.8	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	9	42.9	522	16.2
	1992	3	14.3	548	17.0
	1993-1994	9	42.9	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Centennial Medical Center/Parkview - Nashville TN  
Provider Number 440161 (TNPV)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	9	88.9	86.2	1	0.0	83.4	10	10	2	80.0	85.9	-5.9	0.59
1 Year	9	88.9	77.9	1	0.0	73.9	10	10	2	80.0	77.5	2.5	0.85
Cond. <sup>3</sup> 3 Years	8	100.0	93.7				8	7	0	100.0	93.7	6.3	0.47
3 Years <sup>3</sup>		88.9	73.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	9	100.0	95.9	1	100.0	97.5	10	10.0	0.0	100.0	96.1	3.9	0.52
1 Year	9	100.0	91.8	1	100.0	90.1	10	10.0	0.0	100.0	91.6	8.4	0.34
Cond. <sup>3</sup> 3 Years	9	88.6	93.1				9	8.0	1.0	88.6	93.1	-4.5	0.60
3 Years <sup>3</sup>		88.6	85.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Centennial Medical Center/Parkview - Nashville TN**  
**Provider Number 440161 (TNPV)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>10</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	2	20.0	727	22.6
	18-29	5	50.0	1265	39.3
	30-39	2	20.0	608	18.9
	40-49	1	10.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	7	70.0	2790	86.6
	Black	3	30.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	20.0	622	19.3
	30-39	4	40.0	1616	50.2
	40-49	4	40.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	9	90.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	1	10.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	2	20.0	1059	32.9
	10-17	5	50.0	1440	44.7
	18-30	3	30.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	3	30.0	876	27.2
	20-29	7	70.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	10	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	10	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	2	20.0	1000	31.0
	14-18	5	50.0	867	26.9
	19-23	1	10.0	509	15.8
	24+	1	10.0	164	5.1
	Not Reported	1	10.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	10.0	265	8.2
	3	3	30.0	618	19.2
	4	0	0.0	933	29.0
	5	4	40.0	860	26.7
	6	2	20.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	1	10.0	393	12.2
	1990	3	30.0	517	16.0
	1991	4	40.0	522	16.2
	1992	1	10.0	548	17.0
	1993-1994	1	10.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Tennessee Medical Center - Memphis TN  
Provider Number 440166 (TNUT)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	52	67.3	83.7	22	50.0	85.0	74	74	28	62.2	84.1	-21.9	<0.01*
1 Year	52	57.7	72.3	22	36.4	72.5	74	74	36	51.4	72.3	-21.0	<0.01*
Cond. <sup>3</sup> 3 Years	29	88.7	91.4				29	23	3	88.7	91.4	-2.7	0.61
3 Years <sup>3</sup>		51.2	66.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	51	90.1	95.0	22	95.3	97.0	72	72.0	6.0	91.7	95.6	-3.9	0.09
1 Year	51	86.1	89.8	22	85.3	91.9	72	69.0	10.0	85.9	90.4	-4.5	0.19
Cond. <sup>3</sup> 3 Years	43	89.5	91.9				43	30.0	4.0	89.5	91.9	-2.3	0.59
3 Years <sup>3</sup>		77.1	82.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Tennessee Medical Center - Memphis TN**  
**Provider Number 440166 (TNUT)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>74</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	17	23.0	727	22.6
	18-29	26	35.1	1265	39.3
	30-39	20	27.0	608	18.9
	40-49	9	12.2	450	14.0
	50+	2	2.7	172	5.3
<b>Donor Race</b>	White	66	89.2	2790	86.6
	Black	6	8.1	264	8.2
	Hispanic	2	2.7	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	10	13.5	622	19.3
	30-39	34	45.9	1616	50.2
	40-49	25	33.8	873	27.1
	50+	5	6.8	107	3.3
<b>Recipient Race</b>	White	70	94.6	2955	91.7
	Black	3	4.1	153	4.7
	Hispanic	1	1.4	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	16	21.6	1059	32.9
	10-17	29	39.2	1440	44.7
	18-30	21	28.4	611	19.0
	31+	7	9.5	59	1.8
	Not Reported	1	1.4	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	5	6.8	36	1.1
	10-19	21	28.4	876	27.2
	20-29	34	45.9	1725	53.5
	30-39	12	16.2	490	15.2
	40+	1	1.4	42	1.3
	Not Reported	1	1.4	53	1.6
<b>Previous Pancreas Transplant</b>	No	71	95.9	3096	96.1
	Yes	3	4.1	126	3.9
<b>Transplant Procedure</b>	SKP	59	79.7	2804	87.0
	PAK	4	5.4	204	6.3
	PTA	11	14.9	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	18	24.3	641	19.9
	9-13	31	41.9	1000	31.0
	14-18	19	25.7	867	26.9
	19-23	6	8.1	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	1	1.4	74	2.3
	2	8	10.8	265	8.2
	3	12	16.2	618	19.2
	4	29	39.2	933	29.0
	5	14	18.9	860	26.7
	6	10	13.5	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	15	20.3	393	12.2
	1990	13	17.6	517	16.0
	1991	19	25.7	522	16.2
	1992	13	17.6	548	17.0
	1993-1994	14	18.9	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: University of Tennessee Medical Center  
956 Court Avenue, Memphis, TN 38103  
Provider Number 440166 (TNUT)**

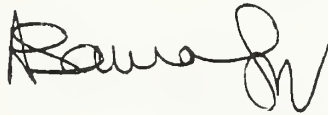
May 20, 1997

The mission of the Transplant Program at UT Memphis is to provide access for all patients (candidates and recipients) to innovative and state-of-the-art multidisciplinary care that ensures achievement of the highest possible quality of life.

The result for pancreas transplantation for the era reported (1992-1994) were disappointing. The majority of the cases were early losses and occurred with equal frequency regardless of transplantation technique used (systemic bladder or portal enteric). The losses were concentrated in late 1992-1993 where we had undertaken trials with alternative induction therapies and procurement techniques. As part of the continuous quality improvement process a restructuring of the clinical protocols was undertaken in 1994 and resulted in improved results in the latter part of that year.

Our efforts reflect themselves clearly in the 1995-1996 results where the actual success rate for all transplants (SPK, PAK, PA) was 80% at 1 year. We continue to strive for providing excellent care for diabetic patients seeking pancreatic transplantation and continue to being committed to our patients and community.

A. Osama Gaber, M.D.  
Director, Division of Transplantation

A handwritten signature in black ink, appearing to read "A. Osama Gaber". The signature is fluid and cursive, with a large initial "A" and a long, sweeping underline.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Vanderbilt University Medical Center - Nashville TN  
Provider Number 440039 (TNVU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	17	41.2	83.7	5	60.0	87.3	22	22	12	45.5	84.5	-39.1	<0.01*
1 Year	17	35.3	73.2	5	60.0	80.6	22	22	13	40.9	74.9	-34.0	<0.01*
Cond. <sup>3</sup> 3 Years	6	83.3	93.7				6	6	1	83.3	93.7	-10.4	0.29
3 Years <sup>3</sup>		29.4	68.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	17	82.4	95.1	5	80.0	98.1	22	22.0	4.0	81.8	95.8	-14.0	<0.01*
1 Year	17	81.7	90.7	5	78.5	94.0	22	20.0	4.0	81.0	91.4	-10.4	0.08
Cond. <sup>3</sup> 3 Years	13	91.2	93.3				13	11.0	1.0	91.2	93.3	-2.1	0.77
3 Years <sup>3</sup>		74.5	84.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Vanderbilt University Medical Center - Nashville TN**  
**Provider Number 440039 (TNVU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>22</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	8	36.4	727	22.6
	18-29	4	18.2	1265	39.3
	30-39	6	27.3	608	18.9
	40-49	4	18.2	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	21	95.5	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	1	4.5	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	8	36.4	622	19.3
	30-39	11	50.0	1616	50.2
	40-49	2	9.1	873	27.1
	50+	1	4.5	107	3.3
<b>Recipient Race</b>	White	22	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	6	27.3	1059	32.9
	10-17	8	36.4	1440	44.7
	18-30	4	18.2	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	4	18.2	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	8	36.4	876	27.2
	20-29	9	40.9	1725	53.5
	30-39	1	4.5	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	4	18.2	53	1.6
<b>Previous Pancreas Transplant</b>	No	21	95.5	3096	96.1
	Yes	1	4.5	126	3.9
<b>Transplant Procedure</b>	SKP	21	95.5	2804	87.0
	PAK	1	4.5	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	2	9.1	641	19.9
	9-13	5	22.7	1000	31.0
	14-18	5	22.7	867	26.9
	19-23	2	9.1	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	8	36.4	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	4.5	265	8.2
	3	1	4.5	618	19.2
	4	12	54.5	933	29.0
	5	6	27.3	860	26.7
	6	2	9.1	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	9	40.9	393	12.2
	1990	5	22.7	517	16.0
	1991	3	13.6	522	16.2
	1992	1	4.5	548	17.0
	1993-1994	4	18.2	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Texas-Medical Branch - Galveston TX  
Provider Number 450018 (TXJS)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	37	89.2	84.6	22	72.7	86.1	59	59	10	83.1	85.1	-2.1	0.65
1 Year	37	78.1	75.1	22	59.1	78.8	59	58	17	71.0	76.5	-5.5	0.31
Cond. <sup>3</sup> 3 Years	28	88.8	92.9				28	25	3	88.8	92.9	-4.1	0.40
3 Years <sup>3</sup>		69.4	69.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	36	94.4	95.7	22	95.4	97.6	58	57.0	3.0	94.8	96.4	-1.6	0.50
1 Year	36	88.8	91.8	22	90.6	92.6	58	56.0	6.0	89.4	92.1	-2.6	0.45
Cond. <sup>3</sup> 3 Years	31	93.2	92.7				31	27.0	2.0	93.2	92.7	0.5	0.92
3 Years <sup>3</sup>		82.7	85.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Texas-Medical Branch - Galveston TX**  
**Provider Number 450018 (TXJS)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>59</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	16	27.1	727	22.6
	18-29	21	35.6	1265	39.3
	30-39	11	18.6	608	18.9
	40-49	10	16.9	450	14.0
	50+	1	1.7	172	5.3
<b>Donor Race</b>	White	43	72.9	2790	86.6
	Black	3	5.1	264	8.2
	Hispanic	13	22.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	1	1.7	4	0.1
	18-29	14	23.7	622	19.3
	30-39	31	52.5	1616	50.2
	40-49	12	20.3	873	27.1
	50+	1	1.7	107	3.3
<b>Recipient Race</b>	White	52	88.1	2955	91.7
	Black	4	6.8	153	4.7
	Hispanic	3	5.1	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	25	42.4	1059	32.9
	10-17	23	39.0	1440	44.7
	18-30	10	16.9	611	19.0
	31+	1	1.7	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	1.7	36	1.1
	10-19	20	33.9	876	27.2
	20-29	31	52.5	1725	53.5
	30-39	6	10.2	490	15.2
	40+	1	1.7	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	58	98.3	3096	96.1
	Yes	1	1.7	126	3.9
<b>Transplant Procedure</b>	SKP	57	96.6	2804	87.0
	PAK	1	1.7	204	6.3
	PTA	1	1.7	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	3	5.1	641	19.9
	9-13	18	30.5	1000	31.0
	14-18	15	25.4	867	26.9
	19-23	14	23.7	509	15.8
	24+	9	15.3	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	2	3.4	74	2.3
	2	4	6.8	265	8.2
	3	8	13.6	618	19.2
	4	17	28.8	933	29.0
	5	18	30.5	860	26.7
	6	10	16.9	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	2	3.4	232	7.2
	1989	12	20.3	393	12.2
	1990	8	13.6	517	16.0
	1991	12	20.3	522	16.2
	1992	7	11.9	548	17.0
	1993-1994	18	30.5	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: University of Texas Medical Branch  
301 University Boulevard, Galveston, TX 77555  
Provider Number 450018 (TXJS)**

May 7, 1997

The University of Texas Medical Branch Transplant Program has been a premier program for the institution for more than thirty years. The pancreas transplant program was the first successful long-term program in the State of Texas. We are committed to excellence.

According to the statistics that are provided in this report from UNOS, the pancreas graft survival rate for Era 2 was 59.1% for one year survival, down from 78.1% in Era 1. The data is based on 22 patients, however, one patient died with functioning pancreas and kidney grafts. If this one patient was excluded, the one year survival for the pancreas grafts would be 72.7%. The other losses were from thrombosis (4) and rejection (2). We have only experienced 7 thromboses, with 93 pancreas transplants performed to date.

We also switched from using bladder drainage to enteric drainage in September 1995. This has dramatically reduced our urological complications of cystitis, pancreatitis, metabolic acidosis, and dehydration.

Kristene Gugliuzza, M.D.

A handwritten signature in cursive script, appearing to read "Kristene Gugliuzza", with a stylized flourish at the end.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Methodist Medical Center - Dallas TX  
Provider Number 450051 (TXMC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	26	88.5	83.8	13	84.6	86.2	39	39	5	87.2	84.6	2.6	0.65
1 Year	26	73.1	72.4	13	69.2	78.2	39	39	11	71.8	74.3	-2.5	0.71
Cond. <sup>3</sup> 3 Years	19	83.9	91.3				19	18	3	83.9	91.3	-7.3	0.24
3 Years <sup>3</sup>		61.3	66.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	23	100.0	94.9	13	100.0	97.3	35	35.0	0.0	100.0	95.8	4.2	0.21
1 Year	23	100.0	90.2	13	92.0	92.4	35	35.0	1.0	97.1	91.0	6.1	0.20
Cond. <sup>3</sup> 3 Years	23	91.3	93.2				23	23.0	2.0	91.3	93.2	-1.9	0.71
3 Years <sup>3</sup>		91.3	84.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Methodist Medical Center - Dallas TX**  
**Provider Number 450051 (TXMC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>39</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	10	25.6	727	22.6
	18-29	20	51.3	1265	39.3
	30-39	6	15.4	608	18.9
	40-49	2	5.1	450	14.0
	50+	1	2.6	172	5.3
<b>Donor Race</b>	White	24	61.5	2790	86.6
	Black	5	12.8	264	8.2
	Hispanic	9	23.1	131	4.1
	Asian	1	2.6	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	5	12.8	622	19.3
	30-39	26	66.7	1616	50.2
	40-49	8	20.5	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	34	87.2	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	5	12.8	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	12	30.8	1059	32.9
	10-17	22	56.4	1440	44.7
	18-30	5	12.8	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	10	25.6	876	27.2
	20-29	27	69.2	1725	53.5
	30-39	2	5.1	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	35	89.7	3096	96.1
	Yes	4	10.3	126	3.9
<b>Transplant Procedure</b>	SKP	35	89.7	2804	87.0
	PAK	4	10.3	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	9	23.1	641	19.9
	9-13	20	51.3	1000	31.0
	14-18	7	17.9	867	26.9
	19-23	3	7.7	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	4	10.3	265	8.2
	3	3	7.7	618	19.2
	4	14	35.9	933	29.0
	5	11	28.2	860	26.7
	6	7	17.9	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	3	7.7	393	12.2
	1990	13	33.3	517	16.0
	1991	9	23.1	522	16.2
	1992	6	15.4	548	17.0
	1993-1994	8	20.5	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for The Methodist Hospital - Houston TX  
Provider Number 450358 (TXMH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	13	76.9	84.1	13	84.6	81.5	26	26	5	80.8	82.8	-2.0	0.78
1 Year	13	61.5	73.8	13	61.5	69.5	26	26	10	61.5	71.6	-10.1	0.24
Cond. <sup>3</sup> 3 Years	8	75.0	93.7				8	8	2	75.0	93.7	-18.7	0.03*
3 Years <sup>3</sup>		46.2	69.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	13	92.3	95.1	13	100.0	97.0	26	24.0	1.0	95.9	96.0	-0.1	0.98
1 Year	13	83.8	89.7	13	90.0	90.2	26	21.0	3.0	86.6	89.9	-3.3	0.60
Cond. <sup>3</sup> 3 Years	10	89.5	89.3				10	9.0	1.0	89.5	89.3	0.2	0.98
3 Years <sup>3</sup>		75.0	80.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**The Methodist Hospital - Houston TX**  
**Provider Number 450358 (TXMH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>26</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	5	19.2	727	22.6
	18-29	6	23.1	1265	39.3
	30-39	2	7.7	608	18.9
	40-49	7	26.9	450	14.0
	50+	6	23.1	172	5.3
<b>Donor Race</b>	White	20	76.9	2790	86.6
	Black	3	11.5	264	8.2
	Hispanic	2	7.7	131	4.1
	Asian	1	3.8	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	3	11.5	622	19.3
	30-39	12	46.2	1616	50.2
	40-49	6	23.1	873	27.1
	50+	5	19.2	107	3.3
<b>Recipient Race</b>	White	23	88.5	2955	91.7
	Black	1	3.8	153	4.7
	Hispanic	2	7.7	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	7	26.9	1059	32.9
	10-17	11	42.3	1440	44.7
	18-30	6	23.1	611	19.0
	31+	1	3.8	59	1.8
	Not Reported	1	3.8	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
Years Between Diabetes Onset and Transplant	1-9	0	0.0	36	1.1
	10-19	5	19.2	876	27.2
	20-29	13	50.0	1725	53.5
	30-39	5	19.2	490	15.2
	40+	2	7.7	42	1.3
	Not Reported	1	3.8	53	1.6
Previous Pancreas Transplant	No	26	100.0	3096	96.1
	Yes	0	0.0	126	3.9
Transplant Procedure	SKP	24	92.3	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	2	7.7	214	6.6
Cold Ischemia Time (Hours)	0-8	3	11.5	641	19.9
	9-13	18	69.2	1000	31.0
	14-18	5	19.2	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
Level of Mismatch	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	3	11.5	265	8.2
	3	4	15.4	618	19.2
	4	8	30.8	933	29.0
	5	6	23.1	860	26.7
	6	5	19.2	388	12.0
	Not Reported	0	0.0	49	1.5
Year of Transplant	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	5	19.2	517	16.0
	1991	8	30.8	522	16.2
	1992	4	15.4	548	17.0
	1993-1994	9	34.6	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: Methodist Hospital  
6565 Fannin, Houston, TX 77030  
Provider Number 450358 (TXMH)**

May 12, 1997

The Methodist Hospital/Baylor College of Medicine Multi-organ Transplant Center (TMH/BCM MOTC) was established in 1984 to create the optimal environment for solid organ and tissue transplantation. The Transplant Center is a unique organization that spans departmental and section lines, allowing efficient utilization of necessary personnel, Hospital, and College resources. Our mission is to provide the highest quality of care to patients being evaluated for, or receiving, organ and tissue transplantation. As a proactive medical facility, we are also committed to research, and remain dedicated to advancing the art and science of organ and tissue transplantation by performing clinical and basic research relevant to organ and tissue transplantation, as well as educating physicians and other healthcare personnel in transplantation.

The TMH/BCM MOTC currently maintains active heart, heart-lung, lung, kidney, and pancreas programs. The pancreas program was established in 1989. In conjunction with the kidney transplant program, the pancreas program offers surgery to end-stage diabetics who have renal failure secondary to diabetes. Because most patients considered for pancreas surgery have severe peripheral neuropathy, retinopathy, and cardiovascular effects from their end-stage renal disease, there is extensive patients screening to make this a successful operation.

While drawing on the resources of the TMH/BCM MOTC, the pancreas transplant program has already made considerable contributions that reach across many disciplines. It has brought increased collaboration with endocrinologists and neurologists, and will provide research beneficial to many other areas, particularly ophthalmology, neurology, endocrinology, and the cardiovascular sciences.

According to UNOS, TMH/BCM MOTC had an actual graft survival rate of 61.5 percent at one year. The expected graft survival rate at one year was 71.6. This was calculated from a statistical risk model based on national data. There are many variables that make comparative analysis difficult, and we caution the public in utilizing these survival rates to decide where they receive medical treatment. A variety of medical factors have influenced graft and patient survival at TMH/BCM MOTC. Quality of care may not be reflected in the survival rates of a transplant program; the survival data only reflect whether a transplant program is different from the average.

Patients should always talk with their physician about their options when deciding upon a transplant facility which will best meet their needs. We are confident in our program, and the level of expertise and excellence that we offer our patients. We welcome your further investigation of our program, and will be happy to discuss your individual circumstances and how our program can address those needs.

Stephen Brennan, M.D.  
Program Director





## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Parkland Memorial Hospital - Dallas TX  
Provider Number 450015 (TXPM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	12	91.7	87.8	18	83.3	86.5	30	30	4	86.7	87.0	-0.3	0.96
1 Year	12	75.0	80.5	18	83.3	78.5	30	30	6	80.0	79.3	0.7	0.92
Cond. <sup>3</sup> 3 Years	9	100.0	93.7				9	9	0	100.0	93.7	6.3	0.44
3 Years <sup>3</sup>		75.0	75.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	12	100.0	95.7	18	100.0	97.0	30	30.0	0.0	100.0	96.5	3.5	0.29
1 Year	12	91.7	91.8	18	100.0	91.0	30	30.0	1.0	96.7	91.4	5.3	0.29
Cond. <sup>3</sup> 3 Years	11	100.0	91.3				11	11.0	0.0	100.0	91.3	8.7	0.30
3 Years <sup>3</sup>		91.7	83.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Parkland Memorial Hospital - Dallas TX**  
**Provider Number 450015 (TXPM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>30</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	3	10.0	727	22.6
	18-29	19	63.3	1265	39.3
	30-39	6	20.0	608	18.9
	40-49	2	6.7	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	17	56.7	2790	86.6
	Black	5	16.7	264	8.2
	Hispanic	6	20.0	131	4.1
	Asian	2	6.7	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	2	6.7	622	19.3
	30-39	15	50.0	1616	50.2
	40-49	10	33.3	873	27.1
	50+	3	10.0	107	3.3
<b>Recipient Race</b>	White	29	96.7	2955	91.7
	Black	1	3.3	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	10	33.3	1059	32.9
	10-17	16	53.3	1440	44.7
	18-30	3	10.0	611	19.0
	31+	1	3.3	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	4	13.3	876	27.2
	20-29	20	66.7	1725	53.5
	30-39	5	16.7	490	15.2
	40+	1	3.3	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	30	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	30	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	8	26.7	641	19.9
	9-13	15	50.0	1000	31.0
	14-18	6	20.0	867	26.9
	19-23	1	3.3	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	1	3.3	74	2.3
	2	0	0.0	265	8.2
	3	5	16.7	618	19.2
	4	5	16.7	933	29.0
	5	13	43.3	860	26.7
	6	6	20.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	1	3.3	517	16.0
	1991	10	33.3	522	16.2
	1992	6	20.0	548	17.0
	1993-1994	13	43.3	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: Parkland Memorial Hospital  
5201 Harry Hines Boulevard, Dallas, TX 75235  
Provider Number 450015 (TXPM)**

May 8, 1997

The University Transplant Program at Parkland is a Center of Excellence for both The University of Texas Southwestern Medical School and Parkland Memorial Hospital. The Program performed its first combined kidney pancreas procedures in 1990. Over 40 patients have since received transplants. The Program is an active member of UNOS and is fully accredited by the American Board of Internal Medicine, the American College of Surgeons in specialities important for transplantation. Patients benefit from the ability of our program to meet the rigorous criteria for such accreditation: the expertise of faculty physicians; the volume of activity; the availability of subspecialty, laboratory, and radiology support; and the continuous review and quality assurance procedures intrinsic to active academic programs. Our patients also benefit from carefully chosen research protocols which allow access to the most promising new therapies.

Our Center Specific Data indicate that our results are well above the national average.

The Program is pleased to cooperate with UNOS in documenting and improving transplantation outcomes.

Shujun Li, M.D.  
Program Director  
Pancreas Transplant





## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Wilford Hall Medical Center - Lackland AFB TX  
Provider Number 45081F (TXWH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	13	76.9	84.9	6	100.0	86.2	19	19	3	84.2	85.3	-1.1	0.89
1 Year	13	76.9	76.3	6	100.0	77.7	19	19	3	84.2	76.8	7.5	0.44
Cond. <sup>3</sup> 3 Years	10	100.0	93.7				10	10	0	100.0	93.7	6.3	0.41
3 Years <sup>3</sup>		76.9	71.5										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	13	76.9	95.2	6	100.0	96.6	19	19.0	3.0	84.2	95.7	-11.5	0.01*
1 Year	13	76.9	91.2	6	100.0	93.1	19	19.0	3.0	84.2	91.8	-7.6	0.22
Cond. <sup>3</sup> 3 Years	10	100.0	94.4				10	10.0	0.0	100.0	94.4	5.6	0.44
3 Years <sup>3</sup>		76.9	86.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Wilford Hall Medical Center - Lackland AFB TX**  
**Provider Number 45081F (TXWH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>19</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	5.3	727	22.6
	18-29	11	57.9	1265	39.3
	30-39	4	21.1	608	18.9
	40-49	3	15.8	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	12	63.2	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	7	36.8	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	1	5.3	4	0.1
	18-29	3	15.8	622	19.3
	30-39	11	57.9	1616	50.2
	40-49	4	21.1	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	14	73.7	2955	91.7
	Black	2	10.5	153	4.7
	Hispanic	3	15.8	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	7	36.8	1059	32.9
	10-17	8	42.1	1440	44.7
	18-30	3	15.8	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	1	5.3	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	5.3	36	1.1
	10-19	6	31.6	876	27.2
	20-29	8	42.1	1725	53.5
	30-39	3	15.8	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	1	5.3	53	1.6
<b>Previous Pancreas Transplant</b>	No	19	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	19	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	5	26.3	641	19.9
	9-13	4	21.1	1000	31.0
	14-18	8	42.1	867	26.9
	19-23	2	10.5	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	2	10.5	618	19.2
	4	7	36.8	933	29.0
	5	6	31.6	860	26.7
	6	4	21.1	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	3	15.8	393	12.2
	1990	4	21.1	517	16.0
	1991	4	21.1	522	16.2
	1992	3	15.8	548	17.0
	1993-1994	5	26.3	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Latter-Day Saints Hospital - Salt Lake City UT  
Provider Number 460010 (UTLD)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	45	66.7	83.2	9	77.8	87.0	54	54	17	68.5	83.8	-15.3	<0.01*
1 Year	45	55.1	73.0	9	64.1	79.5	54	51	23	56.6	74.0	-17.5	<0.01*
Cond. <sup>3</sup> 3 Years	24	90.9	92.5				24	21	2	90.9	92.5	-1.6	0.77
3 Years <sup>3</sup>		50.1	67.5										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	45	88.4	94.1	9	100.0	96.8	54	49.0	5.0	90.2	94.5	-4.3	0.17
1 Year	45	77.7	88.9	9	100.0	91.2	54	42.0	9.0	80.8	89.2	-8.4	0.06
Cond. <sup>3</sup> 3 Years	28	92.1	91.8				28	24.0	2.0	92.1	91.8	0.3	0.96
3 Years <sup>3</sup>		71.6	81.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Latter-Day Saints Hospital - Salt Lake City UT**  
**Provider Number 460010 (UTLD)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>54</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	15	27.8	727	22.6
	18-29	25	46.3	1265	39.3
	30-39	9	16.7	608	18.9
	40-49	4	7.4	450	14.0
	50+	1	1.9	172	5.3
<b>Donor Race</b>	White	52	96.3	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	1	1.9	131	4.1
	Asian	1	1.9	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	11	20.4	622	19.3
	30-39	22	40.7	1616	50.2
	40-49	16	29.6	873	27.1
	50+	5	9.3	107	3.3
<b>Recipient Race</b>	White	53	98.1	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	1	1.9	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	13	24.1	1059	32.9
	10-17	21	38.9	1440	44.7
	18-30	17	31.5	611	19.0
	31+	2	3.7	59	1.8
	Not Reported	1	1.9	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	3	5.6	36	1.1
	10-19	15	27.8	876	27.2
	20-29	29	53.7	1725	53.5
	30-39	5	9.3	490	15.2
	40+	1	1.9	42	1.3
	Not Reported	1	1.9	53	1.6
<b>Previous Pancreas Transplant</b>	No	53	98.1	3096	96.1
	Yes	1	1.9	126	3.9
<b>Transplant Procedure</b>	SKP	50	92.6	2804	87.0
	PAK	1	1.9	204	6.3
	PTA	3	5.6	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	35	64.8	641	19.9
	9-13	15	27.8	1000	31.0
	14-18	4	7.4	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	1.9	265	8.2
	3	16	29.6	618	19.2
	4	16	29.6	933	29.0
	5	13	24.1	860	26.7
	6	5	9.3	388	12.0
	Not Reported	3	5.6	49	1.5
<b>Year of Transplant</b>	1988	11	20.4	232	7.2
	1989	7	13.0	393	12.2
	1990	12	22.2	517	16.0
	1991	13	24.1	522	16.2
	1992	6	11.1	548	17.0
	1993-1994	5	9.3	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Inova Fairfax Hospital - Falls Church VA  
Provider Number 490063 (VAFH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				8	100.0	86.8	8	8	0	100.0	86.8	13.2	0.27
1 Year				8	100.0	80.2	8	8	0	100.0	80.2	19.8	0.16
Cond. <sup>3</sup>													
3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				8	100.0	97.5	8	8.0	0.0	100.0	97.5	2.5	0.65
1 Year				8	100.0	92.6	8	8.0	0.0	100.0	92.6	7.4	0.42
Cond. <sup>3</sup>													
3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Inova Fairfax Hospital - Falls Church VA**  
**Provider Number 490063 (VAFH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>8</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	12.5	727	22.6
	18-29	4	50.0	1265	39.3
	30-39	3	37.5	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	5	62.5	2790	86.6
	Black	3	37.5	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	7	87.5	1616	50.2
	40-49	1	12.5	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	6	75.0	2955	91.7
	Black	1	12.5	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	1	12.5	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	4	50.0	1059	32.9
	10-17	3	37.5	1440	44.7
	18-30	1	12.5	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	2	25.0	876	27.2
	20-29	3	37.5	1725	53.5
	30-39	3	37.5	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	8	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	8	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	2	25.0	1000	31.0
	14-18	5	62.5	867	26.9
	19-23	0	0.0	509	15.8
	24+	1	12.5	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	0	0.0	618	19.2
	4	2	25.0	933	29.0
	5	5	62.5	860	26.7
	6	1	12.5	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	2	25.0	548	17.0
	1993-1994	6	75.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.




**Response From: INOVA Fairfax Hospital  
3300 Gallows Road, Falls Church, VA 22042  
Provider Number 490063 (VAFH)**

May 8, 1997

The Inova Transplant Center At Inova Fairfax Hospital and its staff are proud of UNOS release statistics regarding pancreas, transplant, graft, and patient survival. The first pancreas transplant was performed on July 7, 1992, and the published UNOS survival statistics reflect the results of the first two years of our program.

Through December 31, 1996, the number of pancreas transplants performed at Inova Transplant Center had risen to 21, with a one-year patient survival rate of 95%, and a one-year organ survival of 90%. While these numbers are small, we believe that our excellent statistics reflect our commitment to quality patient care, careful pre-transplant evaluation, multidisciplinary approach, and state-of-the-art equipment and facilities.

Johann Jonsson, M.D., F.A.C.S.  
Director, Kidney and Pancreas Transplant Program

A handwritten signature in black ink, appearing to read "Johann Jonsson". The signature is stylized with a large, looped initial "J" and a cursive "Jonsson".



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Medical College of Virginia Hospitals - Richmond VA  
Provider Number 490032 (VAMC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				2	100.0	88.3	2	2	0	100.0	88.3	11.7	1.00
1 Year				2	100.0	81.2	2	2	0	100.0	81.2	18.8	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				2	100.0	98.2	2	2.0	0.0	100.0	98.2	1.8	1.00
1 Year				2	100.0	94.4	2	2.0	0.0	100.0	94.4	5.6	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Medical College of Virginia Hospitals - Richmond VA**  
**Provider Number 490032 (VAMC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>2</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	1	50.0	727	22.6
	18-29	1	50.0	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	1	50.0	2790	86.6
	Black	1	50.0	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	1	50.0	622	19.3
	30-39	1	50.0	1616	50.2
	40-49	0	0.0	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	2	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	2	100.0	1059	32.9
	10-17	0	0.0	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	0	0.0	876	27.2
	20-29	2	100.0	1725	53.5
	30-39	0	0.0	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	2	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	2	100.0	2804	87.0
	PAK	0	0.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	1	50.0	1000	31.0
	14-18	1	50.0	867	26.9
	19-23	0	0.0	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	1	50.0	265	8.2
	3	0	0.0	618	19.2
	4	0	0.0	933	29.0
	5	1	50.0	860	26.7
	6	0	0.0	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	0	0.0	548	17.0
	1993-1994	2	100.0	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Virginia Health Science Center - Charlottesville VA  
Provider Number 490009 (VAUV)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	21	81.0	83.4	16	81.3	86.1	37	37	7	81.1	84.6	-3.5	0.55
1 Year	21	81.0	70.8	16	75.0	77.5	37	37	8	78.4	73.7	4.7	0.50
Cond. <sup>3</sup> 3 Years	17	94.1	87.7				17	17	1	94.1	87.7	6.4	0.39
3 Years <sup>3</sup>		76.2	62.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	20	94.9	95.1	16	93.2	97.8	35	34.0	2.0	94.2	96.2	-2.1	0.52
1 Year	20	94.9	90.8	16	93.1	92.9	35	34.0	2.0	94.1	91.7	2.4	0.60
Cond. <sup>3</sup> 3 Years	19	94.7	92.9				19	19.0	1.0	94.7	92.9	1.8	0.75
3 Years <sup>3</sup>		89.9	84.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Virginia Health Science Center - Charlottesville VA**  
**Provider Number 490009 (VAUV)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>37</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	9	24.3	727	22.6
	18-29	21	56.8	1265	39.3
	30-39	7	18.9	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	32	86.5	2790	86.6
	Black	3	8.1	264	8.2
	Hispanic	2	5.4	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	4	10.8	622	19.3
	30-39	24	64.9	1616	50.2
	40-49	9	24.3	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	34	91.9	2955	91.7
	Black	3	8.1	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	16	43.2	1059	32.9
	10-17	12	32.4	1440	44.7
	18-30	6	16.2	611	19.0
	31+	1	2.7	59	1.8
	Not Reported	2	5.4	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	9	24.3	876	27.2
	20-29	20	54.1	1725	53.5
	30-39	5	13.5	490	15.2
	40+	1	2.7	42	1.3
	Not Reported	2	5.4	53	1.6
<b>Previous Pancreas Transplant</b>	No	35	94.6	3096	96.1
	Yes	2	5.4	126	3.9
<b>Transplant Procedure</b>	SKP	30	81.1	2804	87.0
	PAK	4	10.8	204	6.3
	PTA	3	8.1	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	7	18.9	641	19.9
	9-13	10	27.0	1000	31.0
	14-18	11	29.7	867	26.9
	19-23	7	18.9	509	15.8
	24+	2	5.4	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	4	10.8	265	8.2
	3	4	10.8	618	19.2
	4	10	27.0	933	29.0
	5	11	29.7	860	26.7
	6	8	21.6	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	1	2.7	232	7.2
	1989	5	13.5	393	12.2
	1990	8	21.6	517	16.0
	1991	6	16.2	522	16.2
	1992	3	8.1	548	17.0
	1993-1994	14	37.8	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Washington Medical Center - Seattle WA  
Provider Number 500008 (WAUW)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	35	100.0	84.0	55	96.4	85.2	90	90	2	97.8	84.7	13.0	<0.01*
1 Year	35	88.6	74.0	55	87.3	76.7	90	90	11	87.8	75.7	12.1	<0.01*
Cond. <sup>3</sup> 3 Years	31	89.8	90.4				31	28	3	89.8	90.4	-0.5	0.92
3 Years <sup>3</sup>		79.6	66.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	35	100.0	96.1	55	98.2	97.8	89	89.0	1.0	98.9	97.1	1.7	0.31
1 Year	35	97.0	92.0	55	92.7	92.7	89	88.0	5.0	94.3	92.4	1.9	0.47
Cond. <sup>3</sup> 3 Years	33	87.3	92.3				33	31.0	4.0	87.3	92.3	-5.0	0.28
3 Years <sup>3</sup>		84.7	84.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Washington Medical Center - Seattle WA**  
**Provider Number 500008 (WAUW)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>90</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	21	23.3	727	22.6
	18-29	27	30.0	1265	39.3
	30-39	21	23.3	608	18.9
	40-49	18	20.0	450	14.0
	50+	3	3.3	172	5.3
<b>Donor Race</b>	White	85	94.4	2790	86.6
	Black	0	0.0	264	8.2
	Hispanic	3	3.3	131	4.1
	Asian	0	0.0	23	0.7
	Other	2	2.2	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	18	20.0	622	19.3
	30-39	39	43.3	1616	50.2
	40-49	31	34.4	873	27.1
	50+	2	2.2	107	3.3
<b>Recipient Race</b>	White	74	82.2	2955	91.7
	Black	3	3.3	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	13	14.4	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	31	34.4	1059	32.9
	10-17	33	36.7	1440	44.7
	18-30	25	27.8	611	19.0
	31+	1	1.1	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	27	30.0	876	27.2
	20-29	51	56.7	1725	53.5
	30-39	12	13.3	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	89	98.9	3096	96.1
	Yes	1	1.1	126	3.9
<b>Transplant Procedure</b>	SKP	80	88.9	2804	87.0
	PAK	5	5.6	204	6.3
	PTA	5	5.6	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	4	4.4	1000	31.0
	14-18	13	14.4	867	26.9
	19-23	44	48.9	509	15.8
	24+	25	27.8	164	5.1
	Not Reported	4	4.4	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	2	2.2	74	2.3
	2	10	11.1	265	8.2
	3	21	23.3	618	19.2
	4	25	27.8	933	29.0
	5	22	24.4	860	26.7
	6	10	11.1	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	9	10.0	517	16.0
	1991	19	21.1	522	16.2
	1992	29	32.2	548	17.0
	1993-1994	33	36.7	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: University of Washington Medical Center  
1959 NE Pacific Street, Seattle, WA 98195  
Provider Number 500008 (WAUW)**

May 7, 1997

The University of Washington Transplant Services is a multidisciplinary team dedicated to providing outstanding transplant care with compassion, integrity, and respect for individual dignity. We are committed to improving our expertise through innovative research and continuous education in order to give patients with organ failure an opportunity to pursue a higher quality of life. This commitment is reflected in this UNOS report which indicates that our graft survival rates continue to be significantly better than expected despite the complex patients that are referred to our institution for transplantation.

The University of Washington Medical Center provides a full range of solid organ transplantation expertise including kidney, pancreas, liver, heart and lung. The medical center has been ranked among the top hospitals in the country according to the 1996 U.S. News and World Report annual guide to "America's Best Hospitals". In addition, the University of Washington School of Medicine recently celebrated fifty years of teaching, research and patient care, and ranks in the top ten schools for NIH research dollars.

Christopher Lee Marsh, M.D., F.A.C.S.  
Director, Kidney & Pancreas Transplant Program





## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Virginia Mason Medical Center - Seattle WA  
Provider Number 500005 (WAVM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				9	77.8	85.0	9	9	2	77.8	85.0	-7.2	0.54
1 Year				9	77.8	75.2	9	9	2	77.8	75.2	2.6	0.85
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month				9	100.0	97.8	9	9.0	0.0	100.0	97.8	2.2	0.65
1 Year				9	100.0	93.2	9	8.0	0.0	100.0	93.2	6.8	0.43
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Virginia Mason Medical Center - Seattle WA**  
**Provider Number 500005 (WAVM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>9</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	3	33.3	727	22.6
	18-29	6	66.7	1265	39.3
	30-39	0	0.0	608	18.9
	40-49	0	0.0	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	7	77.8	2790	86.6
	Black	1	11.1	264	8.2
	Hispanic	0	0.0	131	4.1
	Asian	1	11.1	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	0	0.0	622	19.3
	30-39	8	88.9	1616	50.2
	40-49	1	11.1	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	9	100.0	2955	91.7
	Black	0	0.0	153	4.7
	Hispanic	0	0.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	5	55.6	1059	32.9
	10-17	3	33.3	1440	44.7
	18-30	0	0.0	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	1	11.1	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	0	0.0	876	27.2
	20-29	7	77.8	1725	53.5
	30-39	1	11.1	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	1	11.1	53	1.6
<b>Previous Pancreas Transplant</b>	No	9	100.0	3096	96.1
	Yes	0	0.0	126	3.9
<b>Transplant Procedure</b>	SKP	6	66.7	2804	87.0
	PAK	2	22.2	204	6.3
	PTA	1	11.1	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	0	0.0	641	19.9
	9-13	2	22.2	1000	31.0
	14-18	5	55.6	867	26.9
	19-23	1	11.1	509	15.8
	24+	0	0.0	164	5.1
	Not Reported	1	11.1	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	0	0.0	265	8.2
	3	2	22.2	618	19.2
	4	2	22.2	933	29.0
	5	2	22.2	860	26.7
	6	3	33.3	388	12.0
	Not Reported	0	0.0	49	1.5
<b>Year of Transplant</b>	1988	0	0.0	232	7.2
	1989	0	0.0	393	12.2
	1990	0	0.0	517	16.0
	1991	0	0.0	522	16.2
	1992	2	22.2	548	17.0
	1993-1994	7	77.8	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for Froedtert Memorial Lutheran Hospital - Milwaukee WI  
Provider Number 520177 (WISE)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	43	83.7	83.4	24	87.5	85.8	67	67	10	85.1	84.2	0.8	0.85
1 Year	43	72.1	73.8	24	75.0	77.4	67	67	18	73.1	75.1	-1.9	0.70
Cond. <sup>3</sup> 3 Years	31	96.6	93.7				31	29	1	96.6	93.7	2.9	0.51
3 Years <sup>3</sup>		69.7	69.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	42	95.2	95.5	24	95.6	97.3	65	64.5	3.0	95.3	96.1	-0.8	0.74
1 Year	42	90.4	91.2	24	91.2	92.0	65	64.5	6.0	90.7	91.5	-0.8	0.82
Cond. <sup>3</sup> 3 Years	38	92.1	93.4				38	38.0	3.0	92.1	93.4	-1.3	0.75
3 Years <sup>3</sup>		83.3	85.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Froedtert Memorial Lutheran Hospital - Milwaukee WI**  
**Provider Number 520177 (WISE)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>67</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	15	22.4	727	22.6
	18-29	28	41.8	1265	39.3
	30-39	15	22.4	608	18.9
	40-49	9	13.4	450	14.0
	50+	0	0.0	172	5.3
<b>Donor Race</b>	White	55	82.1	2790	86.6
	Black	10	14.9	264	8.2
	Hispanic	2	3.0	131	4.1
	Asian	0	0.0	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	15	22.4	622	19.3
	30-39	33	49.3	1616	50.2
	40-49	19	28.4	873	27.1
	50+	0	0.0	107	3.3
<b>Recipient Race</b>	White	63	94.0	2955	91.7
	Black	2	3.0	153	4.7
	Hispanic	2	3.0	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	27	40.3	1059	32.9
	10-17	29	43.3	1440	44.7
	18-30	11	16.4	611	19.0
	31+	0	0.0	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	0	0.0	36	1.1
	10-19	15	22.4	876	27.2
	20-29	40	59.7	1725	53.5
	30-39	12	17.9	490	15.2
	40+	0	0.0	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	64	95.5	3096	96.1
	Yes	3	4.5	126	3.9
<b>Transplant Procedure</b>	SKP	62	92.5	2804	87.0
	PAK	2	3.0	204	6.3
	PTA	3	4.5	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	2	3.0	641	19.9
	9-13	27	40.3	1000	31.0
	14-18	21	31.3	867	26.9
	19-23	16	23.9	509	15.8
	24+	1	1.5	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	0	0.0	74	2.3
	2	7	10.4	265	8.2
	3	14	20.9	618	19.2
	4	24	35.8	933	29.0
	5	14	20.9	860	26.7
	6	7	10.4	388	12.0
	Not Reported	1	1.5	49	1.5
<b>Year of Transplant</b>	1988	6	9.0	232	7.2
	1989	11	16.4	393	12.2
	1990	10	14.9	517	16.0
	1991	12	17.9	522	16.2
	1992	13	19.4	548	17.0
	1993-1994	15	22.4	1010	31.3

Source: UNOS OPTN/Scientific Registry data.



**Response From: Froedtert Memorial Lutheran Hospital  
9200 W. Wisconsin Avenue, Milwaukee, WI 53226  
Provider Number 520177 (WISE)**

May 8, 1997

The Medical College of Wisconsin/Froedtert Memorial Lutheran Hospital Transplant Program is pleased to report patient and graft survival rates for simultaneous pancreas-kidney and pancreas-after-kidney transplantation which equal expected national rates for our patient case mix. It should be noted that "Era 1" includes several pancreas-after-kidney cases which are now known to experience higher rates of organ rejection. In recent years, the program has focused on simultaneous pancreas-kidney transplants and has demonstrated a significant improvement in clinical outcomes.

As part of Froedtert Hospital's commitment to the provision of a full range of solid organ and bone marrow transplantation options, the success of this program can be attributed to the dedication of the transplant team and their efforts to continually improve this patient focused, multidisciplinary transplant effort. The success of this approach is demonstrated by the clinical outcomes presented in this report.

Christopher P. Johnson, M.D.  
Director, Pancreas Transplant Program

*Christopher P. Johnson MD*



## Pancreas Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Wisconsin Hospital and Clinics - Madison WI  
Provider Number 520098 (WIUW)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	171	93.6	83.8	117	92.3	85.3	288	288	20	93.1	84.4	8.7	<0.01*
1 Year	171	85.4	75.5	117	82.9	77.9	288	288	45	84.4	76.5	7.9	<0.01*
Cond. <sup>3</sup> 3 Years	146	95.8	93.7				146	141	6	95.8	93.7	2.1	0.27
3 Years <sup>3</sup>		81.8	70.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
3 Month	170	98.2	95.8	116	99.1	97.6	286	286.0	4.0	98.6	96.5	2.1	0.04*
1 Year	170	96.5	91.1	116	94.0	92.7	286	286.0	13.0	95.5	91.8	3.7	0.01*
Cond. <sup>3</sup> 3 Years	164	93.9	93.5				164	164.0	10.0	93.9	93.5	0.4	0.82
3 Years <sup>3</sup>		90.6	85.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Pancreas Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Wisconsin Hospital and Clinics - Madison WI**  
**Provider Number 520098 (WIUW)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>288</b>	<b>100.0</b>	<b>3222</b>	<b>100.0</b>
<b>Donor Age</b>	0-17	57	19.8	727	22.6
	18-29	114	39.6	1265	39.3
	30-39	57	19.8	608	18.9
	40-49	40	13.9	450	14.0
	50+	20	6.9	172	5.3
<b>Donor Race</b>	White	285	99.0	2790	86.6
	Black	1	0.3	264	8.2
	Hispanic	1	0.3	131	4.1
	Asian	1	0.3	23	0.7
	Other	0	0.0	14	0.4
<b>Recipient Age</b>	0-17	0	0.0	4	0.1
	18-29	61	21.2	622	19.3
	30-39	153	53.1	1616	50.2
	40-49	73	25.3	873	27.1
	50+	1	0.3	107	3.3
<b>Recipient Race</b>	White	280	97.2	2955	91.7
	Black	3	1.0	153	4.7
	Hispanic	5	1.7	63	2.0
	Asian	0	0.0	9	0.3
	Other	0	0.0	41	1.3
	Not Reported	0	0.0	1	0.0
<b>Age at Diabetes Onset</b>	0-9	85	29.5	1059	32.9
	10-17	159	55.2	1440	44.7
	18-30	43	14.9	611	19.0
	31+	1	0.3	59	1.8
	Not Reported	0	0.0	53	1.6



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Years Between Diabetes Onset and Transplant</b>	1-9	1	0.3	36	1.1
	10-19	83	28.8	876	27.2
	20-29	161	55.9	1725	53.5
	30-39	41	14.2	490	15.2
	40+	2	0.7	42	1.3
	Not Reported	0	0.0	53	1.6
<b>Previous Pancreas Transplant</b>	No	285	99.0	3096	96.1
	Yes	3	1.0	126	3.9
<b>Transplant Procedure</b>	SKP	285	99.0	2804	87.0
	PAK	3	1.0	204	6.3
	PTA	0	0.0	214	6.6
<b>Cold Ischemia Time (Hours)</b>	0-8	4	1.4	641	19.9
	9-13	48	16.7	1000	31.0
	14-18	125	43.4	867	26.9
	19-23	89	30.9	509	15.8
	24+	22	7.6	164	5.1
	Not Reported	0	0.0	41	1.3
<b>Level of Mismatch</b>	0	0	0.0	35	1.1
	1	2	0.7	74	2.3
	2	17	5.9	265	8.2
	3	58	20.1	618	19.2
	4	98	34.0	933	29.0
	5	64	22.2	860	26.7
	6	40	13.9	388	12.0
	Not Reported	9	3.1	49	1.5
<b>Year of Transplant</b>	1988	27	9.4	232	7.2
	1989	46	16.0	393	12.2
	1990	43	14.9	517	16.0
	1991	44	15.3	522	16.2
	1992	42	14.6	548	17.0
	1993-1994	86	29.9	1010	31.3

Source: UNOS OPTN/Scientific Registry data.





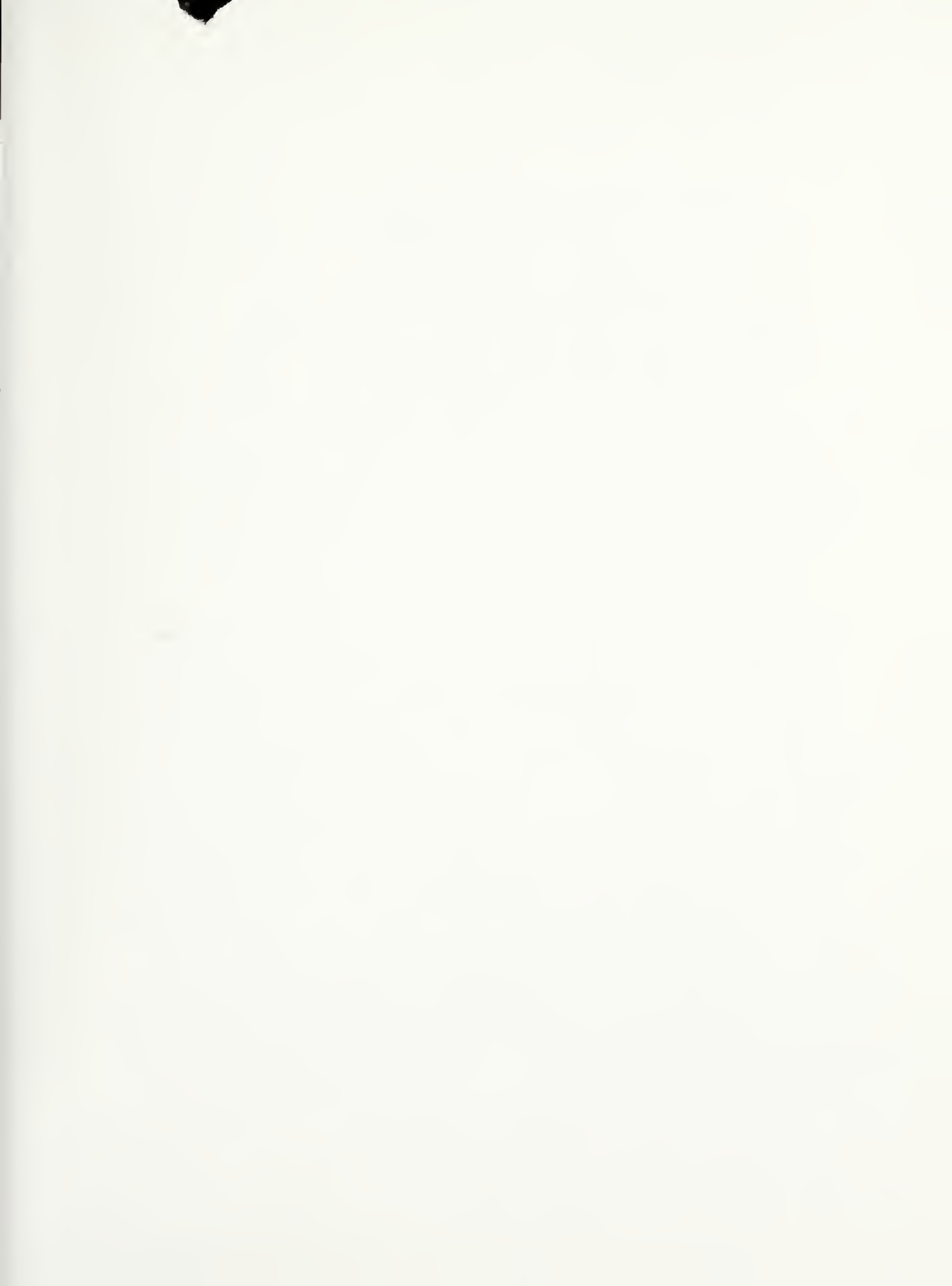
















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